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AIR QUALITY PERMIT TO CONSTRUCT APPLICATION FORM DOCUMENTATION Snake River Trailer Company 315 Kit Avenue Caldwell, Idaho 83605

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DEPARTMENT OF ENVIRONMENTAL QUALITY

March 22, 2007

Prepared for:

Snake River Trailer Company

P.O. Box 879

Caldwell, Idaho 83606

For the Facility at:

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Caldwell, Idaho 83605

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AIR QUALITY PERMIT TO CONSTRUCT APPLICATION Snake River Trailer Company 315 Kit Avenue Caldwell, Idaho 83605

SUMMARY

Snake River Trailer Company (Snake River) proposes to construct and operate a new horse and cargo trailer manufacturing facility at 315 Kit Avenue in Caldwell, Idaho. New air emitting sources at the facility include two paint booths and one curing room. Each booth and the Dry Room are equipped with natural gas-fired air heaters. The results of the inventory of potential emissions and calculation of estimated regulated air emissions demonstrate that the facility is eligible to receive an Idaho Air Quality Permit to Construct (PTC).

The facility will not be a major facility for the purposes of the Permit to Construct requirements.¹ Emission calculations demonstrate that permit-controlled NSR regulated pollutant rates are less than 100 tons per year. Controlled emissions of individual Hazardous Air Pollutants (HAPs) are less than 10 tons per year. Controlled emissions of combined HAPs are less than 25 tons per year. Therefore, the facility is not a major facility (qualifies as "synthetic minor") in terms of Tier I operating permit requirements.² Uncontrolled emissions of most Toxic Air Pollutants (TAPs) are either below screening emission levels or acceptable ambient concentrations.³ Controlled emissions of all TAPs are below acceptable ambient concentrations.⁴

⁴ Ibid., Section 210.08.



¹ Idaho Department of Environmental Quality (IDEQ), Rules For The Control Of Air Pollution In Idaho, IDAPA 58 Title 01, Chapter 01, Section 200.

² Ibid., Section 008.10.

³ Ibid., Section 210.05-06.

2. GENERAL INFORMATION - FORM GI DOCUMENTATION

Snake River Trailer management currently operates a similar trailer manufacturing facility at 1508 E Chicago Street in Caldwell. The Chicago Street facility, C&B Quality Trailer Works, operates under PTC No. 027-00069 issued June 7, 1999. The Chicago Street facility is a synthetic minor, with annual coating use rates limited to keep xylene emissions below 10 tons per year.



3. GENERAL EMISSION UNITS - FORM EUO DOCUMENTATION

There are four General Emission Units associated with this PTC application. Three are natural gasfired air heaters. The fourth is the Dry Room. None of the General Emission Units are equipped with emission control devices. The process equipment is shown on Figure 3-1: *Equipment Layout* (attached).

3.1 Paint Booth Air Heaters

Two of the air heaters (AIRHTR-1 and AIRHTR-2) are identical, direct air heaters manufactured by Bananza with a design output duty of 2.295 MMBtu/hr. The Bananza units are custom made for Spray System booths (see attached electronic mail correspondence). The heaters are located on the inlets to the paint booths. The heater emissions exit each paint booth via 34" roof vents (B00TH1-1, B00TH1-2, B00TH2-1 and B00TH2-2 on Plot Plan). The vents exhaust vertically and are covered by a hinged flap that fully opens when the booth blowers are on. The paint booth heaters are used as needed during spraying to heat outside air to 70°F.

When spraying of a piece is complete, the operator may choose to exit the booth and allow for a short "bake" cycle to cure (harden) the fresh paint. During the automated bake cycle, the heater increases the inlet air temperature to 120-140°F for approximately 15 minutes to accelerate curing. The bake cycle is followed by a cool-down cycle when the heater shuts off and allows the flow of inlet air to cool the booth. During off hours the heaters are not used at all. However, for this PTC application, unrestricted emissions were calculated assuming continuous operation at the heaters' design duty.

3.2 Dry Room Air Heater

The third air heater (DRYHTR-1) is a Reznor Model HX225E-8 indirect air heater with a design input duty of 225,000 Btu/hr. A manufacturer's specification sheet is attached. The heater exhaust is routed through a 8"vertical roof vent (DRYHTR on Plot Plan). The heater is located on the Dry Room air recirculation line. The Dry Room is used to cure (harden) the coating of a newly painted piece. During the automated cure cycle, the heater increases the inlet air temperature to 120-140°F for approximately 15 minutes to accelerate curing of the coating. The heater is used intermittently during the operating day. However, for this PTC application, unrestricted emissions were calculated assuming continuous operation at the heater's design duty.

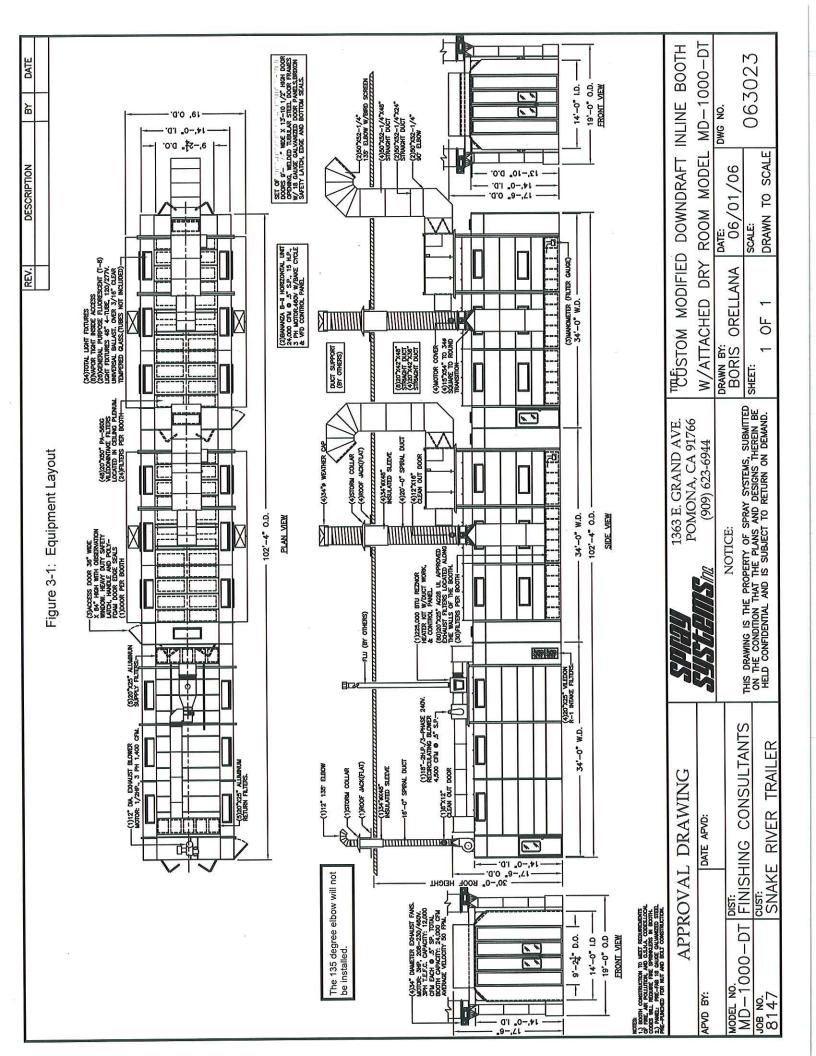
3.3 Dry Room

The fourth General Emission Unit is the Dry Room (DRYRM). Emissions generated by the curing of the coatings in the Dry Room are emitted via an exhaust fan. This fan is provided by Spray Systems in their booth package and is rated at 1400 CFM. The fan exhaust is routed through a 12"



diameter, vertical roof vent (DRYROOM on Plot Plan). The 135° elbow shown on the equipment layout (Figure 3-1), will not be installed. Instead a vertical stack with a non-restrictive weather guard will be installed.





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January 18, 2006

C & B Trailer C/O JEFF MOLL PPG PAINT

Per our conference call today, I have revised my quote to show an option price for making the spray booth and dry room with 14' ceiling heights. As well, I have gone back to Spray Systems for any additional discounts they would offer and have calculated our best pricing that we can offer on this project. Please review and call me with any questions or if you wish to proceed with this project. We can also provide a mechanical installation cost for all of the equipment quoted upon request.

EACH BOOTH CONSISTS OF THE FOLLOWING:

- · Both Booths and Dry Room will be Attached Inline through adjoining Drive-Thru Doors
- · Each Booth consists of the Following Specifications:

DIMENSIONS

- Inside Dimensions: 34'-0" Long x 14'-0" Wide x 10'-0" High
- · Outside Dimensions: 34'-4" Long x 17'-11" Wide x 11'-8" High

BOOTH CONSTRUCTION

- 18 gauge G90 galvanized steel
- · Pre-punched holes on 6" centers
- Easy nut and bolt assembly
- *Structural Support for AMU

The booth is designed to support the AMU on top of the booth

PRODUCT DOORS

- · Drive Thru Door Style: Solid Bi-Fold Doors
- Front & Rear Solid Doors (1 Set of Doors will attach the (2) Booths & Doors on (1) booth will attach to Dry Room)
- · Net Opening: 9'-8 1/2" high x 9'-2 1/4" wide
- · Structural tube frame for strength
- · Continuously welded for corrosion protection
- · Leak proof wiper type seals at the base
- Heavy Duty safety latches

SIDE ACCESS DOOR

- · (1) Access Door measuring 36" x 84" with
- (1) Observation window measuring 18" x 36"
- Door safety latch

C & B Trailer

Page Two

LIGHTING

- · (14) General Purpose High Efficiency, 48" 4-tube, Universal Ballast
- Industrial rated White Coated Enamel
- CUL Approved
- Electronic ballast for energy efficient T-8 tubes (Tubes NOT Included)
- Universal Sockets
- · Rear hinged access panel for easy maintenance
- · Set in framed opening with 3/16" clear tempered glass

EXHAUST FANS AND MOTORS

- · (2) Spray Systems, Heavy Duty 34" Diameter, Tubeaxial Exhaust Fans
- · Non sparking blade, enclosed belts and bearings
- · EACH Capable of exhausting 12,000 CFM @ 1/2" S.P.
- · (2) 3 HP TEFC Motors 208/230-460V-60 hz-3PH
- · Total CFM: 24,000
- · Average Velocity: 50 FPM (Empty Booth)

INTAKE FILTERS

- · Viledon Intake Filters PA560G
- UL Approved
- · 20" x 50" with built in reinforcement frames
- · The supply filters are located on the booth's top air supply plenum
- · The plenum runs down the length of the booth

DRAFT GAUGE

· (2) Dwyer Mark II Manometer to indicate replacement of filters

EXHAUST FILTERS

- · American Air Filters, AG28
- · 20" x 25" with holding hardware
- UL Approved
- · The exhaust filters are located on the booth's (2) side exhaust plenums

The plenums run the length of the spray booth

ATTACHED DRY ROOM

- Inside Dimensions: 14'-0" Wide x 10'-0" High x 34'-0" Deep
- Outside Dimensions: 14'-11" Wide x 11'-2" High x 34'-2" Deep

DOOR CONSTRUCTION

- · Drive Thru Style, Sharing (1) Set of Adjoining Doors with Paint Booth
- Net Opening: 9'-8 1/2" High x 9'-2 1/2" Wide (door ht. changes to 13-10" on 14' high booths)
- · Solid Steel Bi-Fold Doors

ACCESS DOOR

- · (1) Access door measuring 36" x 84" with
- · (1) Observation window measuring 18" x 36"
- · Heavy Duty safety latch

C & B Trailer

Page Three

LIGHTING

- · (6) General Purpose High Efficiency, 48" 4-tube, Universal Ballast
- · Industrial rated White Coated Enamel
- · CUL Approved
- · Electronic ballast for energy efficient T-8 tubes (Tubes NOT Included)
- · Universal Sockets
- · Rear hinged access panel for easy maintenance
- · Set in framed opening with 3/16" clear tempered glass

EXHAUST FAN & MOTOR (DRY ROOM)

- · (1) Heavy duty 12" Exhaust Blower
- · Non sparking blade, enclosed belts and bearings
- Capable of exhausting 1,400 CFM at 1/4" Static Pressure
- · (1) 1/2 HP TEFC Motor
- · 208/230/460 Volt, 60 HZ, 3 Phase

DRAFT GAUGE

· (1) Dwyer Mark II manometer to indicate replacement filters

INTAKE FILTERS

- · (4) Viledon intake filters, Type R-1
- · 20" x 25" with built in reinforcement frames

MISCELLANEOUS

- · All necessary hardware and caulking is included
- · Exploded view CAD assembly drawing
- Booth components labeled and identified with a computer generated label to correspond to the exploded CAD view assembly drawing for easy installation

*OPTIONAL EXHAUST DUCT PACKAGES

- Exhaust Duct Packages are NOT Included In Base Price
- · Meets all Uniform Fire Code Requirements
- EACH 34" Exhaust Duct Package includes: (for a 30' High Roof) (2 Packages per Booth)
 - 32' Spiral Duct
 - 1 Square to Round Transition
 - 1 Insulated Sleeve
 - 1 34" Diameter Weather Canopy
 - 1 Roof Jack & Storm Collar
 - 1 Motor cover
 - 1 Clean Out Door

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Page Four

*OPTIONAL AIR MAKE-UP UNITS

DESCRIPTION

- · Each Unit Includes the following: (2 Required)
- · Horizontal mount, direct-fired natural gas air make up unit
- · 24,000 CFM at 1/2" static pressure, 15 HP, 3 phase motor
- · Customer MUST SPECIFIY VOLTAGE: 208/230 or 460

FEATURES

- · Remote control with fan and burner on/off switch and temperature set point dial
- · 120,000 to 2,295,000 BTU per hour modulating burner
- Approximate 85 degree Fahrenheit temperature rise during spray cycle
- · Inlet hood with washable aluminum intake filters
- · AGA approved gas train
- · Weatherized for outdoor installation
- · Natural gas fired, require 11" 14" water column inlet gas pressure
- · Motor started and disconnect included with base unit
- · Supply Duct included (for a 30' High Roof)
- · AMU Stand Included (for mounting on the booth roof)

BAKE CYCLE

- · Bake cycle with 145 Fahrenheit maximum recommended operating temperature
- Purge & bake cycle timers
- · Cool down and shut off timer
- · Digital temperature read out
- *Includes VFD Control Panel to Operate both Booth & AMU

*OPTIONAL RE-CIRCULATION HEATER

- Includes the Following: (for Dry Room)
- Recirculation Duct Work
- Main Control Panel

Main Disconnect 480/60/3ph Electrical Service Start/Stop Push Button Purge Timer

- Temperature Controller
- · Rail mounted unit for easy installation
- · Inlet register with filter frame
- Discharge Register
- 175,000 BTU Horizontal Indirect Heater Assembly
- Main Recirculation Blower

2,500 CFM @ .25" S.P.

2 HP Motor 208-230/460V 60hz 3 Phase

From:

"Chuck Gillette" <chuck@finishingconsultants.com>

Date:

Subject: FW: Snake River Exhaust Piping Fri, February 2, 2007 5:42 pm

To:

slstine@torf.us

Cc:

"'Ty Crowder'" <ty@finishingconsultants.com>, "'Bill Mellon'" <bill@finishingconsultants.com>

Hello Sarah. The Weather cap for the Snake River project is exactly as shown on the drawings that we have provided to Snake River. For lack of other verbage, it is a "Flapper Door" style of weather canopy. I have no idea what the Chicago St. modeling is. There is no blockage of velocity or flow.

The AMU/Heater portion of the package does not fit any specific model that you can get off of a piece Bonanza literature. The CFM specs are listed on the sales invoice and confirmation and the Spray Systems drawings. The Bonanza B2000 model set up for 24,000 cfm is what is listed on the Spray Systems Drawings.

Chuck Gillette



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Condensing Units

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Direct Fired

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Electric Infrared

Energy Recovery

Gas Infrared

Heating/Cooling Makeup Air

Hydronic

Indoor Duct Furnace

EEDU

HEEDU

HSC

▶ HX

SC X

Indoor Packaged

MISC

Outdoor Duct Furnace

Outdoor Packaged

Reznor European Web Site Used-Oil-Fired Heaters

- Click on a Category to view the Reznor Models. Links below will move you back & forward

NOTE: Weights listed are net weights for base unit only, options can change unit weights significantly. For option weights, please consult the printed catalog or your Reznor Representative.

Catalog >> Indoor Duct Furnace Model List >> Model HX



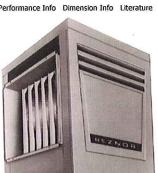
Reznor® HX Series High CFM Duct Furnaces are designed to provide 80% thermalefficiency for indoor applications with gravity venting. They are certified for use with natural or propane gas, as specified, in sizes from 75,000through 400,000 BTUH input.

These models are used as heating components in heating, heating/cooling, or makeup air systems and require a separate blower system for air delivery. The furnace has a Reznor® Thermocore® aluminized steel heat exchanger with venturi-design tubes. The die-formed burners are of aluminized steel and include flared ports with a stainless steel insert.

The HX Model does not include finger baffles and is approved for a temperature rise range of 20°F to

Standard features include a manual match-lit pilot and a single-stage,24-volt gas valve. Model HX units are wired for field connection to aremote 24-

will thermostat for automatic operation. Each unit is provided with all required limit and safety controls, including an energy cutoff (ECO)and a blocked vent shut-off system.







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Unit Heater Air Turnover **Blower Cabinets** Condensing Units Cooling Direct Fired Electric Heaters Electric Infrared

Energy Recovery Gas Infrared Heating/Cooling Makeup Air Indoor Duct Furnace EEDU HEEDU HSC > HX SC Х

Indoor Packaged MISC

Outdoor Duct Furnace Outdoor Packaged

Reznor European Web Site Used-Oil-Fired Heaters

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NOTE: Weights listed are net weights for base unit only, options can change unit weights significantly. For option weights, please consult the printed catalog or your Reznor Representative.

Catalog >> Indoor Duct Furnace Model List >> Model HX



Model	Detail Standard	Features	Optional Featur	es Performano	e Info Dimens	sion Info Lit	erature
Size	Efficiency	Input MBH	Output MBH	Number of Blowers /Fans	Blower/Fan Size (In.)	Minimum CFM	Maximum CFM
75	80%	75	60	0	0	735	2765
100	80%	100	80	0	0	980	3685
125	80%	125	100	0	0	1225	4605
150	80%	150	120	0	0	1475	5530
175	80%	175	140	0	0	1720	6450
200	80%	200	160 .	0	0	1965	7370
225	80%	225	180	0	0	2210	8295
250	80%	250	200	0	0	2455	9215
300	80%	300	240	0	0	2945	11060
350	80%	350	280	0	0	3440	12900
400	80%	400	320	0	0	3930	14745

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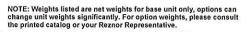
Unit Heater Air Turnover **Blower Cabinets** Condensing Units Cooling Direct Fired Electric Heaters Electric Infrared

Energy Recovery Gas Infrared Heating/Cooling Makeup Air Hydronic Indoor Duct Furnace EEDU HEEDU HSC N HX SC X

Indoor Packaged MISC Outdoor Duct Furnace Outdoor Packaged

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Click on a Category to view the Reznor Models.
 Links below will move you back & forward



Catalog >> Indoor Duct Furnace Model List >> Model HX

Model Detail Size:	Standard Features Weight (lb.)	Optional Features Length (In.)	Performance Info Width (In.)	Dimension Info Height (In.)	Literature Vent Dia
75	150	28	19-1/4	32-1/4	5" Rd
100	150	28	19-1/4	32-1/4	6" Rd
125	163	28	22	32-1/4	7" Ov
150	182	28	27-1/2	32-1/4	8" Ov
175	186	28	27-1/2	32-1/4	8" Ov
200	224	28	33	35-1/4	8" Rd
225	231	28	33	35-1/4	8" Rd
250	276	28	41-1/4	35-1/4	10" Ov
300	286	28	41-1/4	35-1/4	10" Ov
350	320	28	46-3/4	35-1/4	12" Ov
400	355	28	52-1/4	35-1/4	12" Ov

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4. SPRAY PAINT BOOTHS - FORM EU3 DOCUMENTATION

Snake River will be installing two new paint booths at the Kit Avenue facility for the application of primer and topcoat to trailer components. The first booth will be used typically for primer application while the second booth will be used typically for topcoat application. The booths and Dry Room are connected with pass-through doors so targets can be easily moved from the primer booth to the topcoat booth and then into the Dry Room.

4.1 Paint Booth Equipment

The booth emissions contain the booth heater combustion gases, volatiles from the sprayed coatings, and any overspray that is not captured by the booth filters. Each booth is equipped with two exhaust fans, which draw booth air through the outlet filters installed along each wall and up, out of the booth. The fans are manufacturer by Spray Systems and are rated at 12000 CFM each. The booth emissions are exhausted via two 34" roof vents per booth (B00TH1-1, B00TH1-2, B00TH2-1 and B00TH2-2). The vents exhaust vertically and are covered by a hinged flap that fully opens when the booth blowers are on.

Each spray booth is equipped with American Air Filter AG-28 paint arrestor pads on the exhaust plenums. These filters have been tested and found to capture 98.13% of overspray. Manufacturer and test data are attached. The filter area in each booth is 104 square feet (30 filters).

In order to reduce paint use and emissions, Snake River Trailer will be installing low pressure, high efficiency paint guns and utilizing electrostatic application in the two new paint booths.

Manufacturer information sheets for the spray guns are attached. The spray system supplier, Finishing Consultants, reports retention efficiency of 50-65% for this equipment and application method.⁵ A conservative (maximizes emissions) retention efficiency of 50% was used for the emission estimations included in this application.

4.2 Paint Booth Sprayed Coatings

In order to minimize emissions of xylene and volatile organic compounds, while maintaining product quality and maximizing production at the Kit Avenue facility, Snake River is planning on switching to a new primer or topcoat or possibly both. However, if product quality cannot be maintained with the new paints, Snake River would like to maintain the option of using the same paints that are permitted at the Chicago Street facility.

Snake River uses paints manufactured by PPG. The possible combinations to be used at the Kit

⁵ Project Communication (via E-mail), Ty Crowder, Finishing Consultants, to Sarah Stine, TORF Environmental Management, January 17, 2007.



Avenue facility are listed below in Table 4-1. The "Delstar Mix" paint mix (currently in use at the Chicago Street facility) uses a DP- primer and a DAR- topcoat. The topcoat contains 15-70% xylene (per the MSDS) and is the major contributor to xylene emissions at the Chicago Street facility. The Delstar DP-primer also contains some xylene, but at a lower concentration. PPG has developed a lower Volatile Organic Compound (VOC) paint mix called the Essential line. The components of the "Essential Mix" line are detailed below and include ES- topcoats and primers. The most probable paint mix is shown below under the "Combo Mix" heading. Because of the good performance results Snake River Trailer has experienced with the DP- primers, they are most interested in using that primer with the ES- topcoats. This Combo Mix would allow Snake River to paint more units while keeping total xylene emissions well below 10 tons/year, and maintaining synthetic minor facility status.

Table 4-1: Kit Avenue Facility Proposed Paint Mixes

Paint Name	Delstar Mix	Essential Mix	Combo Mix
n	DP50LF Gray	ASP 901 Black	DP50LF Gray
Primer	DP90LF Black		DP90LF Black
Primer Catalyst	DP401LF	None	DP401LF
T	DAR8000 White	ESSS9000 Black	ESSS9000 Black
Topcoat	DAR9000 Black	ESSS903653 White	ESSS903653 White
Topcoat Activator	None	ESX510	ESX510
Topcoat Hardener	DXR80	ESH200	ESH200
Topcoat Reducer	DTR600	None	None
	DTR602		
924	DT870		
Thinner/Cleaner	DTL10	DTL10	DTL10

The criteria, HAP and TAP emissions associated with each paint mix are estimated in Tables 5-3a to 5-5b and are included in Section 5. Details of those calculations are also provided in Section 5.

4.3 Proposed Annual Permit Limits

Based on the results of the emission calculations for each of the mixes, permit limits are proposed which limit the use rate of each of the paint mix components. The proposed annual limits are shown in Table 4.2, below.



Table 4-2: Kit Avenue Facility Proposed Annual Permit Limits

Donalds at	Usa	Maximu	Permit Limit			
Product	Use .	Delstar Mix	Essential Mix	Combo Mix	remmt Limit	
ASP-#	Primer		4000		4000 gal/yr	
DAR-#	Topcoat	3075	(A.A.)		3075 gal/yr	
DP-#LF	Primer	1538		3556	3556 gal/yr	
DP401LF	Catalyst	769		1778	1778 gal/yr	
DTR-60#	Reducer	2306			2306 gal/yr	
DT870	Reducer	500			500 gal/yr	
DTL10	Thinner	1560	1560	1560	1560 gal/yr	
DXR80	Hardener	384			384 gal/yr	
ESH200	Hardener		1667	1667	1667 gal/yr	
ESSS9000	Topcoat		9000	9000	9000 gal/yr	
ESSS903653	Topcoat		1000	1000	1000 gal/yr	
ESX510	Activator		1667	1667	1667 gal/yr	
Xylene		9.9 tons/yr	0.3 tons/yr	3.0 tons/yr	9.9 tons/yr	

For the Delstar Mix and consistent with the Chicago Street facility, a limiting pollutant (the limit being the threshold between minor and major facility classification) is xylene at 9.9 tons/year. Keeping xylene emissions below 10 tons/year sets the allowable annual use rate of the DAR topcoats and thus the allowable use rates of the associated topcoat additives, primer and primer additives. For the Essential and Combo paint mixes that use the low-xylene topcoat, Snake River proposes tripling the topcoat volumetric use limit over the Delstar Mix in order to cover possible future production needs. The resulting use rates of the additives and primers stem from the new topcoat usage rate. For these mixes, there is no limiting pollutant to maintain minor facility status.

Xylene is the only specific chemical component with a permit limit. Including a xylene limit in the permit will allow more DP- primer and catalyst to be used in the event Snake River utilizes the Essential or Combo Mixes, but will prevent too much DP-primer from being used if Snake River uses the Delstar Mix. This is discussed further in Section 5.

4.4 Proposed Daily Permit Limits

The proposed daily limits for the various paint mixes are shown below in Table 4-3. With the booth emission control filters in place, daily limits are not necessary to keep criteria pollutants within acceptable levels. However, for the Essential topcoat and additives, daily limits are necessary to keep the ambient concentrations of parachlorobenzotrifluoride (PCBTF) within the acceptable ambient concentration (AAC). PCBTF is not a listed 58.01.01 TAP. However, upon inquiry, IDEQ



determined that it should be considered a non-carcinogenic TAP and established an AAC of 0.253 $\,\mathrm{mg/m^3.6}$

For the Delstar primer and topcoat mixes and the Essential primer mix, the maximum use rates represent the components being sprayed in the required mix ratios at the spray guns' maximum 24-hour output. Daily permit limits are not required for these components.

Table 4-3: Kit Avenue Facility Proposed Daily Permit Limits

Product	Hea	Maximu	Dormit Limit			
Product	Use	Delstar Mix	Essential Mix	Combo Mix	Permit Limit	
ASP- #	Primer		270	22		
DAR-#	Topcoat	144				
DP- #LF	Primer	180		180		
DP401LF	Catalyst	90		90		
DTR-60#	Reducer	108				
DT870	Reducer	72				
DTL10	Thinner	15	15	15	15 gal/day	
DXR80	Hardener	18				
ESH200	Hardener	==	17	17	17 gal/day	
ESSS9000	Topcoat		68	68	68 gal/day	
ESSS903653	Topcoat		34	34	34 gal/day	
ESX510	Activator		17	17	17 gal/day	
Note: Rates	in italics ar	e based on spra	y gun daily (24 h	our) capacity.		

⁶ Project Communication (via telephone), Robert Wilkosz and Carl Brown, IDEQ, and Sarah Stine, TORF Environmental Management, November 6, 2006.





AmericanAirFilter^a AG-28

Fiberglass Paint Arrestor Pads

- Effectively removes paint overspray solids of all types lacquer, air dry or baked enamel.
- · Protect exhaust ducts, fans, and motors from paint build-up.
- · Clean exhaust air is discharged to the atmosphere.
- · Economical to use.



AG-28 pads are designed exclusively to collect paint overspray. They are made from continuous filament glass fibers with an open weave pattern that allows particles to penetrate deep into the pad. Paint is collected throughout the full depth, extending pad life and reducing costs. A skin backing on the air leaving side serves as a final barrier to prevent paint and other coatings from penetrating through the media.

Smooth Airflow Through Booth Prevents "Fogging"

A specially formulated thermoset resin provides high compression strength preventing AG-28 pads from collapsing and face-loading as they become saturated. Air continues to flow smoothly through the pads preventing "fogging" or misting of paint particles in the booth. Overspray is drawn into the pads so that it does not settle on spray guns, walls, floors, or conveyors. Proper airflow assures healthier working conditions in conformance to OSHA standards.

Cleaner Exhaust Air — Fewer Maintenance, Environmental Problems

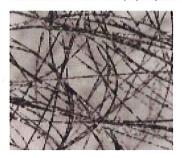
Continuous filament glass fibers force paint laden air to change directions many times as it passes through the pad. Paint particles, unable to follow the continuously weaving air stream, collect on the fibers. Cleaner exhaust air flows on through.

Maintenance problems and the hazards of fire are reduced because fans, motors, and ducts do not accumulate layers of paint. Cleaner air is discharged to the atmosphere protecting the local environment from unintentional "dusting" and costly property damage.



Fast, Easy Installation and Removal

An entire bank of AG-28 pads can be changed in a few minutes. They fit into standard holding frames, no new grids or other accessories needed. AG-28 pads are directly interchangeable with other types of paint arrestors. Only one AG-28 pad is required per frame, including installations where two paper pads are currently used.



Lightly Loaded Air Entering Side Close-up photo shows open weave pattern that allows over-spray to penetrate deep into the pad.



Heavily Loaded Air Entering Side
Same magnification of heavily loaded
pad illustrates the large holding capacity
of each fiber. The open space between
fibers continues to permit good airflow
and allow paint to penetrate.



Heavily Loaded Cross Section
Cross section view shows how AG-28
pad is completely utilized by collecting
paint throughout the full depth.

AmericanAirFilter AG-28

Space-Saving Dispenser Carton

The AAF exclusive packaging design has 60 two-inch pads in a carton only 10½" high.

These cartons are easily carried to and from the booth. A perforated, easy-open dispenser top permits fast removal of pads. They spring back to their original 2" thickness when removed, while the remaining supply is held conveniently in place until needed.

Product Information

Standard Sizes	Quantity Per Carton	Shipping Wt. (Lbs. Per Carton)
PADS	rei Galtoli	(LDS. Fel Caltoli)
16½" X 20½" X 2"	60	0.0
		9.0
16½" X 25½" X 2"	60	10.0
20½" X 20½" X 2"	60	9.0
20½" X 25½" X 2"	60	11.5
24" X 24" X 2"	60	13.0
ROLLS		
20" X 85' X 2"	2	14′.0
25" X 85' X 2"	2	18.0
30" X 85' X 2"	2	21.0
36" X 85' X 2"	2	29.0
40" X 85' X 2"	2	30.0
48" X 85' X 2"	2 2	32.0
60" X 85' X 2"	1	22.0

Underwriters Laboratories, Inc. Classification AG-28 media is classified UL Class 2. Testing was performed according to UL Standard 900.

Initial Resistance

.09" w.g. @ 300 FPM .14" w.g. @ 400 FPM .20" w.g. @ 500 FPM

Color

White on air entering side. Green tint on air leaving side.

Specifications

Paint Arrestor Media shall be of the disposable type and supplied in either precut pads or rolls 85' in length. Media shall be dry and composed of continuous filament glass fibers bonded together with a cured resin. The media shall be white on the air entering side and tinted on the air leaving side with a contrasting color. The media shall be classified Class 2 by Underwriters Laboratories, Inc.

Pre-cut pads shall be contained in a dispenser carton of the approximate length and width of the pads and no more than 12" in height. Each carton shall contain 60 pads. Access to the pads shall be through an easy-open perforated top which shall allow pads to be removed individually while holding the remaining pads in place.

Rolls of standard width shall be packaged (one, two) per carton. Other widths will be packaged at the discretion of the manufacturer.

The shipping container shall be identified with no less than the product name, size, quantity, and the approved listing mark from Underwriters Laboratories, Inc. Filter media shall be as manufactured by AAF International and identified as AG-28 Paint Arrestor Pads or Rolls.



10300 Ormsby Park Place Suite 600 Louisville, Kentucky 40223-6169 www.aafintl.com

Customer Service 888.AAF.2003 Fax 888.223.6500 ISO-9001 Certified Firm

AAF has a policy of continuous product research and improvement and reserves the right to change design and specifications without notice.

PAINT OVERSPRAY COLLECTION SPYICINGS AG-28 Fiberglass Coatings Collection Media

Test Procedure

A measured amount of paint (by weight) was fed into the filter media in a test duct. After the paint was fed, the gain in weight of the test filter was determined. Additional increments of the same amount of paint were fed until the filter reached a predetermined final resistance to air flow. The paint collection efficiency was calculated for each increment of paint fed and for the overall test. Efficiency is determined by comparing the weight of paint caught to the total weight of paint fed.

	Faint fed (Grans)	Gain in Weight of Test Filter (Gramm)	Paint Collection Efficiency
1st Increment	238.82g	234,62g	98.248
2nd Increment	238-829	236.12g	98.874
3rd Increment	238.82g	234-09 g	98.02%
4th Increment	338-82g '	234.45g	98.174
5th Increment	238.82g	232.52g	97.368
Total	.1194.10g	1171.80g	98.13\$



1 .. 220"

CONVENTIONAL, VORTEX OR HVLP MANUAL ELECTROSTATIC GUN

MIV6600



CONVENTIONAL

The Sames MIV6600 is the lightest manual gun in the industry that uses modern electronics. It combines superb operator comfort with outstanding finish quality. The MIV6600 is most often used in high production settings where high flowrates are required.

SPECIFICATIONS

Gun Length:

Gun Weight:

Max. Output Voltage:

Max. Air Pressure: Max. Air Consumption:

Vortex:

Conventional Fan:

HVLP Fan:

Max. Fluid Pressure:

Max. Temperature:

Air Inlet Fitting:

Fluid Inlet Fitting:

Trigger Assembly:

Wetted Parts:

Material Sprayed:

12" / 305 mm

22 ounces / 625 grams

60 kV

90 psi / 6 bar

Fan = 25

14 cfm / 23 m3/hr

15 cfm / 25 m3/hr

22 cfm / 37 m³/hr

90 psi / 6 bar

140° F / 60° C

1/4" M NPS (Warning: Use Special

Hose/Cable combination only

3/8" M NPS (Use grounded Fluid Hose Only)

2 finger standard, 4 finger optional

Plastic and Stainless steel Virtually all fluid materials

FATURE

- Gun cable and hose detatch at gun handle*
- Lightest Cascade gun in the industry
- Vortex, HVLP and fan spray
- Highest loaded voltage in the industry

DENEED

- Allows for quick gun changes and easy maintenance
- Reduces operator fatigue and potential injuries from extended use
- · Will adapt to changing environments
- Delivers the highest transfer efficiencies for conventional guns
- * On MIV6600.1 for solvent based coatings with low resistivity only.





CONVENTIONAL, VORTEX OR HVLP MANUAL ELECTROSTATIC GUN

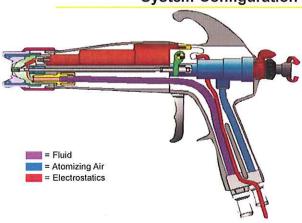
MIV6600 FEATURES

Certifications and Approvals

The MIV6600 gun is FM Approved in the USA and CE and EX Certified for Europe.

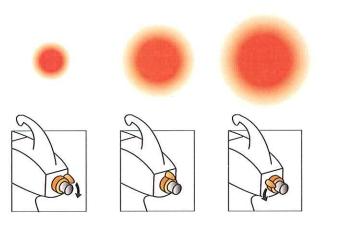


System Configuration



Time Saving Adjustments

While spraying, the operator can simultaneously adjust the pattern size and paint flowrate to maintain on-the-go optimum spray performance.



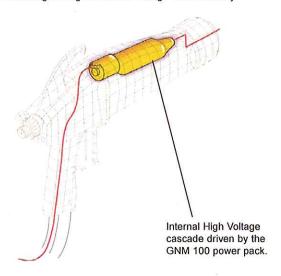
Outstanding Ergonomics

Its lightweight, easy 2 or 4 finger trigger pull, excellent balance and combined cable and air hose assembly makes the MIV6600 the gun of choice by operators that need full voltage performance.



Leading Edge Electronics for Safety and Performance

The MIV6600 uses the latest in electronic technology. The combination of a low voltage, non-sparking cable and integrated cascade, delivers excellent safety for the user while delivering the highest loaded voltage in the industry.







5. EMISSION INVENTORY WORKBOOK FORMS EI1-EI4 DOCUMENTATION

5.1 Natural Gas-Fired Equipment Emissions

Emission factors for estimating the emissions from the natural gas fired equipment are based on AP-42, Section 1.4 Natural Gas Combustion, July 1998 edition. The estimated uncontrolled criteria pollutant emissions are calculated in Table 5-1a (attached). The combined carbon monoxide (CO), lead, and sulfur dioxide (SO₂) emissions do not exceed the IDEQ modeling thresholds and are not, therefore, included in air dispersion modeling. There are no other known process sources of CO, lead and SO₂ emissions. The estimated uncontrolled TAP emissions are calculated in Table 5-1b.

5.2 Coating Operation Emissions

Criteria, HAP and TAP emissions from the painting operations are estimated using material compositions as provided on Material Safety Data Sheets (MSDS) and by PPG. In some cases two coatings are combined into a single group item (i.e.: DAR8000 and DAR9000 are grouped under DAR- Acrylic Enamels). This was done where there is more than one color in the same paint line, or where two additives in the same line are very similar. In calculating component concentrations for those items, the highest component concentration listed on any MSDS of the group is used to calculate component concentration for the group. All MSDS are attached in the Appendix.

The recipe for each paint mix is provided by PPG (see attached mix specification sheets). To achieve the optimum coating performance, hardeners, reducers and catalysts are added to the primer and/or topcoat in ratios shown below in Table 5-2. Therefore, once the usage rate basis for primer and topcoat is established, the quantities of each mix component can be calculated using the mix recipe.

Table 5-2: Coating Mix Ratios

Mix Ratios (volumetric)	Delstar Mix	Essential Mix	Combo Mix	
Primer				
Primer: Catalyst	2:1	None	2:1	
Topcoat				
Topcoat: Activator	None	6:1	6:1	
Topcoat: Hardener	8:1	6:1	6:1	
Topcoat: Reducer	DTR-# 4:3	None	None	
	DT870 2:1			



5.3 Booth Uncontrolled Emissions Estimation

Uncontrolled emission estimations for each of the three paint mixes are provided in Tables 5-3a, 5-4a, and 5-5a (attached). The uncontrolled hourly paint use rate is based on continuous operation of two spray guns with a capacity of 12 ounces per minute, or 5.625 gallons per hour, each. Since the two guns could potentially spray primer or topcoat at the same time, hourly uncontrolled emissions of the primer and topcoat mixes are based on 11.25 gal/hr. Annual emissions are based on two guns spraying 8760 hours per year. However, the resulting annual coating volume is divided between topcoat and primer in a 2.5:1 ratio. This ratio is based on two to three coats of topcoat applied per coat of primer, and was verified by examination of Snake River's past relative use of the two coatings at the Chicago Street facility.⁷

Volatile components in the paints are assumed to be completely emitted. The total content of Volatile Organic Compounds (VOCs) in each coating is estimated by multiplying the non-solids content of the coatings as provided on the MSDS by the coating use rate. This amount is then reduced by the amount of VOC-exempt compounds, acetone and parachlorobenzotrifluoride (PCBTF), contained in the coating, using the minimum concentration of those compounds as listed on the MSDS. The resulting cumulative content of VOCs in the coatings is then listed as the VOC emission rates.

Emissions of one component, hexamethylene diisocynate (HMDI), are estimated more precisely. HMDI is a 585 TAP with a relatively low acceptable ambient concentration. It is a reactive, hardening agent used in very small concentrations in the Delstar and Essential topcoat mixes. The actual concentration in the hardener is less than the 1 wt.% minimum reportable level allowed on MSDS. Attached are letters from PPG reporting the actual concentration of HMDI in the hardeners (0.17-0.18 wt%) and the extent of reaction of the HMDI when mixed with the topcoats (85-95%). In estimating the emissions of HMDI, the actual concentrations as provided by PPG were used, and 15% of the HMI was assumed to be unconsumed in the hardening reaction and, therefore, released to the atmosphere.

For non-volatile paint components, the efficiency of the paint application method is considered in estimating uncontrolled emissions. Snake River Trailer is planning on utilizing electrostatic spray guns in the paint booths. The supplier reports 50-65% paint retention rate on the spray targets (see Form EU3 Documentation). Uncontrolled emission rates for each non-volatile pollutant of concern are estimated by multiplying the coatings' cumulative pollutant content by the maximum target overspray rate of 50% for electrostatic application operations.

Particulate content in the coatings is estimated by multiplying the solids content of the coatings

⁸ United States Code of Federal Regulations, Title 40 Part 51.100(s).



⁷ C&B Quality Trailer Works, Monthly Coating Use Reports, April-July 2006.

as provided on the MSDS by the coating usage rate. All particulate is conservatively assumed to be of a diameter less than 10 microns (PM_{10}). Uncontrolled emission rates of the cumulative PM_{10} content are calculated as described above for non-volatile components.

5.4 Booth Uncontrolled Emissions Analysis

Analysis of uncontrolled emissions of the different paint mixes demonstrate that, without permit limits, the facility will qualify as a "major facility" because of VOC, PM₁₀, and/or HAP emissions. Permit conditions are proposed to maintain "synthetic minor" facility status.

On the other hand, most uncontrolled TAP emissions are less than the emissions screening levels listed in IDAPA 58.01.01, Sections 585. Per IDAPA 58.01.01.05, for these TAPs no further procedures for demonstrating preconstruction compliance are required.

For the remaining TAPs, the uncontrolled air concentrations were calculated using the results of screening modeling described elsewhere in this application (see Form MI Documentation). For all but a few TAPs, the resulting uncontrolled ambient concentrations were less than the acceptable ambient concentrations (AACs) provided in IDAPA 58.01.01.585. Per IDAPA 58.01.01.06, for these TAPs no further procedures for demonstrating preconstruction compliance are required.

For the remaining TAPs (calcium carbonate, PCBTF, and silica-crystalline), controlled emissions were analyzed to demonstrate pre-construction compliance.

5.5 Booth Controlled Emissions Estimation

Controlled emissions for each of the three paint mixes are provided in Tables 5-3b, 5-4b, and 5-5b. The annual controlled usage for each paint mix is based on maintaining synthetic minor facility status or matching Snake River's maximum projected coating usage rate. The daily controlled usage for each paint mix is based on meeting 24-hour averaged AACs for all TAPs or matching the spray quns' maximum capacity.

In estimating controlled emissions the efficiency of the booths outlet filters is considered. Snake River Trailer is planning on using American Air Filter AG-28 filters with an efficiency of 98.13% (see Form EU3 Documentation). Controlled emissions for each pollutant of concern are estimated by multiplying the pre-filter component emission rate by a filter pass-through rate of 2%.

5.6 Booth Controlled Emissions Analysis

Analysis of controlled emissions of the different paint mixes establishes the proposed permit limits. For the Delstar Mix (Table 5-3b), the limiting pollutant is xylene. The majority of xylene is found in the Delstar enamel topcoat. Annual topcoat use rate must be controlled to keep xylene emissions below 10 tons/yr. Controlled, 24-hr averaged, TAP emissions rates for the Delstar Mix are



calculated using the two spray guns' maximum daily capacity (270 gal/day) for both the primer and topcoat mixes, and accounting for the booth filter efficiency. Using this unrestricted daily use rate, all TAP and PM₁₀ ambient concentrations or emission rates were within acceptable levels.

The controlled emissions analysis for the Essential Mix is provided in Table 5-4b. Snake River would like to set annual usage limit for this paint line at 300% of the Chicago Street facility, or 10,000 gallons per year of topcoat. Because of the reduced VOCs in the Essential line, there are no limiting annual pollutants at the proposed permit limit. However, daily limits on the topcoat are required to keep the ambient concentration of parachlorobenzotrifluoride (PCBTF) at acceptable levels. PCBTF is not a listed 58.01.01 TAP. However, upon inquiry, IDEQ determined that it should be considered a non-carcinogenic TAP and established an AAC of 253 ug/m³.9

The controlled emissions analysis for the Combo Mix is provided in Table 5-5b. As with the Essential Mix, Snake River would like to set the annual usage limit for this paint line at 300% of the Chicago Street facility, or 10,000 gallons per year of topcoat. Because of the reduced VOCs in the Essential topcoat, there are no limiting annual pollutants at the proposed permit limit. However, daily limits on the topcoat are required to keep the ambient concentration of PCBTF at acceptable levels.

5.7 Controlled Emissions Analysis- Facility Summary

An overall analysis of the booth emissions is provided in Table 5-6. In this table, daily TAP emissions are calculated by simply summarizing the proposed, daily permitted emissions for each paint mix along with the unrestricted TAP emissions from all three air heaters. This is very conservative (maximizes emissions) since summing the daily permitted emissions for the three paint mixes actually exceeds the daily capacity of the spray guns. Daily PM₁₀ emissions are calculated using the spray guns' capacity and the coating mix with the highest solids content. The coating with the highest solids content is the Essential Primer. The PM₁₀ emissions from unrestricted air heater operations are also included in the daily PM₁₀ emission rate.

In Table 5-6, annual emissions for all coatings are calculated and summarized at their proposed annual permit limits. This conservative approach results in xylene emissions greater than 10 tons/yr, and total HAP emissions greater than 25 tons/yr. However, in practice these major facility thresholds will not be exceeded because all of the coating mixes will not be used. To ensure the xylene and, therefore, HAP limits are not exceeded, Snake River proposes a permit limit of 9.9 tons/yr xylene. Including a xylene limit in the permit will allow more DP- primer and catalyst to be used in the event Snake River utilizes the Essential or Combo Mixes, but will prevent too much DP-primer from being used if Snake River uses the Delstar Mix.

⁹ Project Communication (via telephone), Robert and Carl Brown, IDEQ, and Sarah Stine, TORF Environmental Management, November 6, 2006.



5.8 Controlled Emissions Analysis- Dry Room

The Dry Room is used to cure (harden) the coating of a newly primed and topcoated piece. Typically, after a trailer is topcoated in Booth 2, it is pulled into the Dry Room to allow curing of the coating to be completed. During the automated cure cycle, the Dry Room heater increases the inlet air temperature to 120-140°F for approximately 15 minutes to accelerate curing of the coating. The Dry Room is used intermittently during the operating day.

Per the booth supplier, a maximum of 5-10% of the coating volatiles can remain in the coating prior to curing in the Dry Room.¹⁰ If the volatile level was higher than this, bubbling of the coating would occur during the cure cycle. Estimated maximum emissions from the Dry Room are calculated in Table 5-7 assuming 10% of the total coating volatiles are emitted from the Dry Room. Since no spray operations occur in the Dry Room, no particulate is assumed to be emitted.

¹⁰ Project Communication (via telephone), Ty Crowther, Finishing Consultants, and Sarah Stine, TORF Environmental Management, February 28, 2007.



TABLE 5-1a: Natural Gas-Fired Air Heaters Criteria Emissions

Natural Gas- Fired Equipment	Make	Rated Output	On-Line Rating (hrs/yr)		1 1101		Emission Fact		Potential Emissions from Gas Combustion			Modeling Threshold																				
	Model	(MMBtu/hr)	Actual	Used for PTE	(scfh)		AP-42	lb/10 ⁶ scf	lb/hr	tons/yr	lb/hr	tons/yr																				
						NO _x	Table 1.4-1.	94	0.26	1.16	**	1.0	воотн																			
C D 4						co	Table 1.4-1.	40	0.11	0.49	14																					
Spray Booth 1 Air Supply		2.295	3120	8760	2813	SO ₂	Table 1.4-2.	0.6	0.0017	0.0074	0.2	1.0																				
Heater		2.255	3120	8760	2013	PM ₁₀	Table 1.4-2.	7.6	0.0214	0.0936	0.2	1.0	воотн																			
							Lead	Table 1.4-2.	0.0005	1.41E-06	6.16E-06	-	0.6																			
					Ì	VOC	Table 1.4-2.	5.5	0.0155	0.0678	**:																					
		Bananza 2.295					NO _x	Table 1.4-1.	94	0.26	1.16		1.0	BOOTH																		
Carau Baath 0			i l	1	45						l î	co	Table 1.4-1.	40	0.11	0.49	14															
Spray Booth 2 Air Supply	Bananza		3120	8760	2813	SO ₂	Table 1.4-2.	0.6	0.0017	0.0074	0.2	1.0																				
Heater	Dunanza					PM ₁₀	Table 1.4-2.	7.6	0.0214	0.0936	0.2	1.0	воотн																			
														-												[Lead	Table 1.4-2.	0.0005	1.41E-06	6.16E-06	
						VOC	Table 1.4-2.	5.5	0.0155	0.0678																						
	Reznor					NO _x	Table 1.4-1.	94	0.021	0.091		1.0	BOOTH ²																			
Dry Room	rtoznor]]				co	Table 1.4-1.	40	0.009	0.039	14																					
Recirculation		0.180	3120	8760	221	SO ₂	Table 1.4-2.	0.6	0.0001	0.0006	0.2	1.0																				
Heater	HZ225E-8	5.700	5.20	3120 6760		PM ₁₀	Table 1.4-2.	7.6	0.0017	0.0073	0.2	1.0	BOOTH ²																			
						Lead	Table 1.4-2.	0.0005	1.10E-07	4.83E-07		0.6																				
						VOC	Table 1.4-2.	5.5	0.0012	0.0053																						

Note 1: Assume 80% efficiency, natural gas heating value of 1020 Btu/scf.

Note 2: Dry Room heater emissions included with booth emissions for screening modeling, Dry Room heater emissions are less than 5% of Booth heater emissions.

Table 5-1b: Natural Gas-Fired Air Heaters TAP Emissions

Unit ID	Rated Input MMBtu	On-line Rating Used	Emission Fa AP-42 Tab 1.4-3 and 1	les .4-4	Combustion	
	per hr	(hrs/yr)	Toxic Air Pollutant	lb/ MMBtu	lbs/hr	
			Arsenic	2.0E-07	1.2E-06	
			Barium	4.3E-06	2.6E-05	
			Benzene	2.1E-06	1.2E-05	
			Cadmium	1.1E-06	6.4E-06	
		Chromium	1.4E-06	8.2E-06		
			Cobalt	8.2E-08	4.9E-07	
			Copper	8.3E-07	5.0E-06	
			Dichlorobenzene	1.2E-06	7.0E-06	
Booth and			Formaldehyde	7.4E-05	4.4E-04	BOOTH ¹
Dry Room	5.963	8760	Hexane	1.8E-03	0.011	
Heaters (3)			Manganese	3.7E-07	2.2E-06	
			Mercury	2.5E-07	1.5E-06	¥F
			Molybdenum	1.1E-06	6.4E-06	
			Naphthalene	6.0E-07	3.6E-06	
			Nickel	2.1E-06	1.2E-05	
			Pentane	2.5E-03	1.5E-02	
			Toluene	3.3E-06	2.0E-05	
			Vanadium	2.3E-06	1.3E-05	
			Zinc	2.8E-05	1.7E-04	

Note 1: Dry Room heater emissions included with booth emissions for screening modeling. Dry Room heater emissions are less than 5% of Booth heater emissions.

Snako Rivor Trailors Kit Avonuo Sito Table 5-3a

Table 5-3a: Uncontrolled Emissions with Delstar Paint Mix

							I											
Product ID Namo	Usage Ra	Usage Rate Basis	Kit As Unres Usa	Kit Avenue Unrestricted Usage	Product Specific Gravity		, 7	-	Volatile Content	VOC PTE ²	Component	CAS Numbor	Component Concontration (MSDS, wt%)	Coating Retention		Component Potential to Emit	Toxic Air Pollutants - Paint	TAP Ty (24 hr Annu:
	Dally	Annual	gal/day gal/yr	aalivr	(MSDS)	lb/day lb/or	lbfor	wt%)					min ² max	(*)	Ibiday	lb/vr		Averng
	11.25 aph									T	Carbon Black	1333-86-4		50.0%	28.463	7421	Acetone	585 (2/
DAR-	of enamel.										Ethyl Bonzone	100-41-4	7%	%0.0	79.696	20778	long	585 (24
mels	DTR		144	37543	0.948	1139	296826	296826 44.79%	55.21%	81.94	Methyl Ethyl Ketone	78-93-3	7%	0.0%	79.696	20778		585 (24
PPG	reducer and		0000			/W.M.Co.	CONTRACTOR CONTRACTOR	11-01-08-01-0-11	Control State of the Control of the		Titanium Dioxide	13463-67-7	30%	20.0%	170.777	44524		585 (24
	hardener									•	Xylanes	1330-20-7	20%	%0.0	796.957	207778	Carbon Black	585 (24
		Continuous								Ī	Barlum Sulfato	7727-43-7	30%	20.0%	301 291	31420		585 (24
		two gun								_	2-Butoxy Ethanol	111.76.2	%5	%0.0	100 430	10473		585 (24
		operation								-	Calcium Carbonate	1317-65-3	30%	20.0%	301.291	31420	Hexamethylana diisocyanala	585 (24
		(98550									Carbon Black	1333.86.4	26%	20 05	50.215	5537	o-Hovono	585 (24
		gollyr)								-	Froxy Resin	25068.38.8	306	50.0%	301 201	31420	ladoral Alcohol	585 /24
		15,500								_	Ethyl Benzene	100.41.4	10%	7600	20.086	2005	4-Molhovy 2-Propul Arethia	585 /24
										•	Mathyl o Amil Kalona	440.490	4364	0.078	200,000	97994	Adollod a Appl Applied	2000
Diplos of Comme	11.25 gph		*							-1	MOUNT IN-AUTO ACTIONS	110-43-0	1376	0.078	201.115	_	Welly n-Amyl Kelond	200 (20
DOOR F Short	of primor	2	407	*****		2000	Sporton	1020 000	Ser wall	63.00	worth isobuly keighe	100-10-1		0.076	200.001	_	WEINYICYCIONEXBIO	202 (24
Drauer bider	and catalyst	×××××××××××××××××××××××××××××××××××××××	9	10/01	1.330		203403	CU2403 02.2776	37,7370	28.32	Naphtha (Aromatic)	94742-95-9		0.0%	100.430		1	265 (24
Cpoxy Primers											Silica- amorphous	112926-00-8		20.0%	15.065			585 (24
2											Silica- crystalline	14808-60-7	1.0%	50.0%	10.043			585 (24
										_1	Talc	14807-96-6	5%	20.0%	50.215	_ 1		585 (24
										_	Titanium Dioxide	13463-67-7	10%	20.0%	100.430			585 (24
										-	Toluene	108-88-3	7%	0.0%	140,602	14663		585 (24
										-	1.2.4-Trimothyl Benzene	95.63.6	202	2600	100 430			585 (24
										-	Vind Resio	25086.48.0	20%	50 DW.	50 215	1	Convento	KRE (OA
				6						-1-	Videoco	12000000	2.00	20.00	200 400	1	Supplied the supplied of the s	2000
										T	2.Butowy Ethanol	144.78.9	378	0.00	00.430		Ayland	2000
										-	Comment Stanford	20000	787	0.00	40,000			
DP401LF										-		0.50-10		800	10.20	4022	Hazardous Air Pollutants	Pote
Epoxy Primar		9.4 Diemost la Catalant	50	0.00	0000	100	COBDA	7077 00	70 2300	1 00 00		04742-90-0	1	200	69.669	0820		
Catalyst		to commyst		2200	0.000	200	10000	ZD.7.7.0	0.53.0	27.10	_	50100337-5132	1	50.0%	89.078	4	Ethyl Bonzono	
PPG											Propyl Alcohol	1	30%	0.0%	198.158		Hexamethylene dilsocyanate	
											1,2,4-Trimethyl Benzene	_	7%	0.0%	46.237		n-Hexane	
											Xylenes	1330-20-7	30%	0.0%	198.158	20865	MEK	
											n-Heplane	142-82-5	5%	0.0%	24,890	6489	MIBK	
											1-Welhoxy 2-Propyl Acetate		30%	0.0%	149.339		Naphthalane	
-											2-Methoxy 2-Propyl Acetate	ļ'~	1%	0.0%	4.978	┡	Toluone	
0.00	2:1 Enamel	2:1 Enamel to Reducer		********		000		0.000	100000	_	Methylcyclohexane		See	0.0%	24.890		Xylene	
Reducer	(Not	(Note 1)	12	18//1	0.829	498	129783	129783 0.00%	100.00%	64.89	Methyl Ethyl Ketone	1	40%	7600	199.12	1	Total	
Deld										•	Nachtha	0.00.04742	202	0.000	00 70	⊹		
										-	Marshing W. M. & D.)	A 00 0000	300	0.00	140 94	+		
											respired (v.m. o.r.)	20-20-200	3078	0.078	40.04	20922		
											Toluene	108-88-3	4	0.0%	149.34	_	Orderia Pollutunte	Pote
											Acetone	67-64-1	10% 30%	0.0%	30.02	10959	Citeria Politicalis	
											Hexane	107-83-5	5%	0.0%	5.00	1826	PM (Note 7)	
OF Jacob											n-Hexmo	110-54-3	762	7600	7.01	2557	10 min DOV	
DILIO.	15 gallon:	15 gallons per day	į	24.43	_	9	20000	7000	100 001		Incorport Alcohol	67-63-0	20%	2000	30.02	10959	/	
radner i ninner	(No	(Note 5)	2	0.50	0.80	201	30253	0,00%	0,000	10.44	1-Methovy 2-Propost Acetate	108.65.6	50%	7900	5.00	1826		
PPG	2	00									I-wellloxy z-Plopyi Aceune	0-00-00	0.70	0.078	00.0	1020		
										,	3-Mothylpentane	96-14-0	2%	0.0%	9.00	1826		
										-1	Naphtha	64742-89-8	2%	0.0%	2.00	1826		
											Taluane	108-88-3	1	0.0%	70.06	25570		
											Acelone	67-64-1	10% 40%	0.0%	292.55	76273		
											Aromatic Hydrocarbon	64742-94-5		0.0%	95.08	24789		
											n-Butyl Acetate	123-86-4		0.0%	73.14	19068		
										-1	n-Heptane	142-82-5	13%	0.0%	95.08	24789		
											Hexane	107-83-5	2%	%0.0	51.20	13348		
DTR600										-	n-Hexane	110-54-3	10%	%0.0	73.14	19068		
DTR602	4:3 Framel	4:3 Framel to Reducer	108	28157	0.812	731	190682	2,000	100 00%	85.84	Mothylcyclohexane	108-87-2	13%	0.0%	95.08	24789	Note 1: Capacity of Sames MIV gun i	AIV gun
Reducers	and and	io voqued		20102		2	20000	0.00.0	00.00	0.00	3-Methylpentane	96-14-0	2.6%	0.0%	51.20	13348	Topcoat Mix: 8 parts enamel, 6 part	ol, 6 part
PPG										_	Naphiha	64742-89-8	30%	%0.0	219.42	57205	Primor Mix. 2 parts primer, 1 part ca	1 part or
											Naphtha (Aromatic)	64742-95-6	7%	0.0%	51.20	13348	Note 2: All volatile material counted a	paluno,
											Naphthalone	91-20-3	1.5%	0.0%	10.97	2860	Note 3: Electrostatic coaling retention	retention
											1,2,4-Trimothyl Benzene	95-63-6	2%	%0.0	36.57	9534	For the non-volatile constituents in the	In It in It
											Toluene	108-88-3	30%	0.0%	219.42	57205	Note 4: Par PPG, the maximum conc	um con
										-	Xylenes	1330-20-7	1.0%	0.0%	7.31	1907	reduced and retained in the coating u	u pulluo
											n-Butvl Acetate	123-86-4	5%	0.0%	8.33	2172	Note 5: DTI 10 used for noninment of	o fromo
											Hexamethylene			1				
											Dinocyanata (Note 4)	822-06-0	0.17%	85.0%	0.042	=	Note 6: Based on Screens modeling.	gnilabor
DXR80											Hexane-1,6-Dilsocyanate	20102013	4008	50.0%	02 23	94799	Mode 7: Desired on combined anothern	annimon
Ultra Urethane	8:1 Fnamel	8:1 Fnamel to Hardener	18	4693	1110	187	42444	42444 83.39%	16.61%	3.6	Polymer		200	4	1	711.17	200000000000000000000000000000000000000	- Common
Hardenar	X									-	1-Melhoxy 2-Propyl Acetalo	108-65-6	10%	4	16.66	4344	Note 8: For 585 TAPs, sum of compor	l compo
2											z-Methoxy z-Propyl Acetalo		1.0%		1.67	434		
											Naphlha (Aromalic)	4	200	0.0%	8.33	2172		
										-	1,2,4-1 nmothyl Benzeno	1330.30.7	1.5%	0.0%	1 67	652		
											Aylend	(33treur	1.0%	-1	101	200		

Toxic Air Pollutants - Paint Application	TAP Type (24 hr or Annual Averaging)	TAP Screening Level (lb/hr)	Total Uncontrolle d Emissions (lb/hr)*	Uncontrolld Emissions (% of EL)	Allowable Ambient Conc. (AAC, mg/m³)	Impact at 1 lb/hr Emissions (mg/m³)*	Persistence Factor	Uncontrolld Ambient Conc. (mg/m³)	Uncontrolld Conc. (% of AAC)
Acetone	585 (24 hr)	119	13.4	11.3%	68				
2-Butoxy Ethanol	585 (24 hr)	8	6.94	86.7%	9				
n-Butyl Acetate	585 (24 hr)	47.3	3.39	7.2%	35.5				
Calcium Carbonate	585 (24 hr)	0.667	12.6	1882%	9.0		200	0.475	%0'96
Carbon Black	585 (24 hr)	0.23	3.28	1425%	0.175		0.2000	0.124	70.8%
Ethyl Benzene	585 (24 hr)	29	4.16	14,3%	21.75				
n-Heptane	585 (24 hr)	109	5.00	4.6%	82				
Hexamethylane disocyanate 585 (24 hr)	585 (24 hr)	0.002	0.00174	86.9%	0.0015				j
n-Hoxane	585 (24 hr)	12	3.34	27.8%	6				
Inopropyl Alcohol	585 (24 hr)	65.3	3.18	4.9%	49				
1-Melhoxy 2-Propyl Acetale 585 (24 hr)	585 (24 hr)	24	7.13	29.7%	3.6	0.0040			
Methyl n-Amyl Kolono	585 (24 hr)	15.7	10.9	69.3%	11.75	0,0940	ŧ.		
Methylcyclohexane	585 (24 hr)	107	8.00	4.7%	80.5				
MEK	585 (24 hr)	39.3	11.6	29.6%	29.5			0	
MIBK	585 (24 hr)	13.7	5.86	42.8%	10,25				
Naphthalone	585 (24 hr)	3.33	0.46	13.7%	2.5				
Propyl Alcohol	585 (24 hr)	33.3	8.26	24.8%	25				
Silica- amorphous	585 (24 hr)	0.667	0.63	94.1%	9.0				
Silica- crystalline	585 (24 hr)	0.0067	0.42	6246%	0.005			0.016	317%
Toluene	585 (24 hr)	25	24.1	%9.96	18.75				
1,2,4-Trimethyl Benzene	585 (24 hr)	8.2	7.74	94,4%	6.15				
Xvlene	585 (24 hr)	53	46.0	159%	21.75			1,741	8.0%

ollutants Potential to Emit (tons/yr)	11.4	Isocyanate 0.0054	10.8	36.3	7.3	1,4	68.2	120.6	
Hazardous Air Pollutants	Ethyl Bonzono	Hexamethylene dilsocyanate	n-Hexane	MEK	MIBK	Naphthalene	Toluone	Xylene	

Criteria Pollutants	Potential to Emit (tons/yr)
PM ₁₈ (Note 7)	0.08
VOC (Note 2)	234.4

gun is 12 flost /minute 5582 gallen/haur, Uncentrolled emissione barand on continuous, 2 gun aporation. partit DTR reducer, 1 part harderner. D1970 Reducer only used occanishmally in wintor as a supplement. and cashigad. And cashigad. The continuous of the continuous and supplement. It is a supplement of the continuous of the continuous occanishmally in wintor as a supplement of the 2004 by 6004 by the pur supplement of the States of the Continuous of the

Note 17: Based on combined coalings' todics content adjusted for coaling retention.

Note 8: For 585 TAPs, sum of component laciday divided by 24 instiday. For 586 TAPs, sum of component talyst divided by 8780 tradys.

Table 5-3b: Controlled Emissions with Delstar Paint Mix

																				1
	2006 Chicago		1,100	Kit Avenue		Product	Kit Avenue	FR 1140,5		Volatile	Controlled			Concentration	Coatir	Spray Bo		Estimated	Toxic	ž
Manufacturer	Stroot	Cases Name Cases	e Codenia	is n	_	Gravity	Usago		S S S S S S	Content En	Emissions ²	Component	Numbor	(MSDS, wt%	Retention (%)	on Efficiency		missions	Pollutants Applica	lica in
_	(gallyr)	Daily	Annual	gal/day gal/yr		(wishs)	lb/day lb/yr			-	(tonsiyr)			mln² max		(1/0)	-1			- 1
00000		11.25 gph	Limit									Carbon Black	1333-86-4	2%9	88	% 38.0%	+	7 12.2		ceto
DAR-		of enamel,	xylene	3	3600	0,00	0000	24242	AA 70W. EE	SE 2485	6 74	Mathyl Bonzono	700-41-4	767	- 1	+	79.70	-	2-buloxy to	XXX
Acrylic Enament	2800	reducer and	10.9.9		2002	2		-			L	Titanium Dioxide	13463-67-7	30%	20.0%	%0.86	t	+	0	S
e e		hardener	tons/yr									Xylenes	1330-20-7	70%	1	Н	-	-	Ш	ug
								-				Barlum Sulfate	7727-43-7	30%		4	+	4		Be
												2-Butoxy Ethanol	111-76-2	200	- 1	0.0%	100.43	827.8	Hovemodhylana	idel.
												Calcium Carbonale	1317-65-3	302	- 1	+	1	+	Ī	oug P
										-	1	Enove Denia	2505004	30%	20.0%	1	+	╀	lac	Ive
										_		Fillyl Benzone	100-41-4	10%	1	H	-	₽	1.5	2.P
			100								1	Methyl n-Amyl Kelone	110-43-0	13%	1	ŀ	-	-		15
OPSOLF Grav		11.25 gph of									1	Methyl Isobutyl Ketone	108-10-1			L	r	60 1201.0		cyck
DP901 F Rinck	1024	primer and	Mix to	180	1538	1.338	2009	17157 62	62.27% 37.73%	7,73%	3.24	Naphtha (Aromatic)	64742-95-6				100.43	-		ME
Epaxy Primers		catalyst			(5						Silica- amorphous	112926-00-8					0 2.57		MIBI
PPG											_	Silica- crystalline	14808-60-7	1.0%		%0.86 %	6 0.20	-	Naphtha	th th
												Talc	14807-96-6	5%						y A
												Titanium Dioxide	13463-67-7	10%						Ĕ
										_		Toluene	108-88-3				140.60		SIIIS	6
								-				1,2,4-Trimethyl Benzene	95-63-6					ш		olue
												Vinyi Resin	25086-48-0					9.8	1,2,4-Tr	thou
												Xylones	1330-20-7	25%		Ц	H	Н		Xylor
									-			2-Buloxy Ethanol	111-76-2	10%				-	2	ı
134												Isopropyl Alcohol	67-63-0				1	\dashv	_	
DP401LF							_					Naphtha (Aromatic)	64742-95-6				85.87	733.5	Critoria Po	9
Epoxy Primer	515	2:1 Primer to Catalyst	to Catalyst	96	692	0.880	199	5642 29	29.77% 7	70.23%	1.98	Polyamida Resin	80100337-5132			_	1	-	_	
PDG												Propyl Alcohol	71-23-8	30.			1		9	1
)												1,2,4-Trimethyl Benzene	95-63-6	7			46.24	24 394.9	-	Md
								1	1	1		Xylenes		30.		1	1		9	
										-		n-Hoptano	142-82-5	Š		1	24.89	39 172.8		1
											1	1-Mothoxy 2-Propyl Acetate		30.		4	t		Hazardous Air	Ā
07070											-1	2-Mathoxy 2-Propyl Acetate	\sim 1	19		1	1			1
Poderor	306	2:1 Enamel	Dor your	22	800	0.829	498	3457 0	0.00%	100.00%	1.73	Methylcyclohexane	1	5%		1	24.89	39 172.8	_	웹.
PPG	000	to Reducer					_	_				Methyl Ethyl Katona		100		4	+	_	Hexam	e .
:			Mary 128									Naphtha	64742-89-8	52		1	+	-		X L
												Naphtha (V.M. & P.)	8032-32-4	30		1	149.34	24 1037	MID	M
								-	+	1		Dodone	108-88-3	100% 20a		1	t			1
												Havina	107-83-5	200		1	2.00	٠		ě
												n-Hoxano	110-54-3	78%	%0.0	%0.0	t	728.6		Xyle
DTL10		15 gal por	30 gal per	-			_				_	Isonropyl Alcohol		30°		-	H			Tot
Laquer Thinner	1040	day	week	15	1560	0.80	100	10408 D	0.00%	100.0%	4.68	1-Mathoxy 2-Propyl Acetate		2%		L	H	+]	ı
PPG		(Note 5)	(Note 5)									3-Methylpentane	L				H	0 520.4	7	
												Naphtha	64742-89-8					Н		
												Tolunne	108-88-3	704	%0.0 %	% 0.0%	90'02 9	36 7285.8	_	ž
												Acetone	67-64-1	10%				292.55 6247.24	24 PM ₁₀ (N	(A)
											الما	Aromatic Hydrocarbon	64742-94-5	13%	%0.0 %	%0.0		\rightarrow	_	3
												n-Butyl Acetalo	123-86-4		4	+	+	1561.81	18	
											1	n-Heptane	142-62-0	70,	_	2000	51.00	-	200	
											1	o-Hexana	110.54.3	10,	_	1	t	+	1 50	
DTR600					_					- Charles and	00000	Methyleyelohexana	108-87-2	13	_	-	95.08	+	32	
Reducers	1600	4:3 Enamel to Reducer	to Reducer	108	2306	0.812	731	15618 0	0.00%	100.00%	7.03	3-Methylpentane	96-14-0			L	H	-	27 Note 1: Capaci	pac
PPG												Naphtha	64742-89-B		ш	%0.0 %		-		IIX.
												Naphtha (Aromalic)	64742-95-6		7% 0.0%	-	+	-	. 1	× ×
												Naphthalene			_	4	+	+		Š .
				_					-	_		1,2,4-Trimethyl Benzene	95-63-6	2%5	%0.0 %	+	+	-	_	g d
									_			Toluene	108-88-3	30	+	1	7	1		200
								+	1	Ī	1	Xylones	1330-20-7	1.0%	% 0.0%	%0.0	7.31	11 156.18	18 Note 4: Per PP	4 7
											1	n-tsutyl Acetate Hexamethylene Dilsocyanate		1 3		-	+	+	1	
								_				(Note 4)	822-06-0	0.17%	7% 85.0%	%0.0 %I	0.042	42 0.89	Note 5: DTL10	5
DXR80				_				_				Hexane-1,6-Dilsocyanate	28182-81-2	701	100% 50.0%	%0'86 %1	1.67	35.58	is Note 6: Based	pos
Ultra Urethane	335	8:1 Enamel to Hardener	to Hardene	18	384	1,110	167	3558 83	83,39% 16.61%	16.61%	0.30	1-Mothoxy 2-Propyl Acetate				+	+	-	_	pos
PPG		(ABADERDOV) over			1			_				2-Methoxy 2-Propyl Acetate			Ш	H	Н	Н		nerh
								_				Naphtha (Aromalic)	64742-95-6		2% 0.0%	%0.0 %	8.33	33 177.92	_	latile
		- 2-1		_		0		_	_			1,2,4-Trimethyl Benzene	\vdash		Ш		+	H	_	. 58
_				_			_	_	-	-	_	Videop	⊢		L		_	-	Note 10: Bare	Sand

Toxic Air Pollutants - Paint Application	TAP Type (24 hr or Annual Averaging)	Altowable Ambient Conc. (AAC, mg/m3)	Total Controlled Emissions (lb/hr) ⁹	Impact at 1 Ib/hr Emissions (mg/m3)*	Persistance Factor	Controlled Controlled Ambient Conc. Conc. (% of (mg/m3)	Controlled Conc. (% of AAC)
Acetone	585 (24 hr)	89	13,44				
2-Butoxy Ethanol	585 (24 hr)	9	6.94				
n-Butyl Acatalo	585 (24 hr)	35.5	3.39				
Calclum Carbonata	585 (24 hr)	0.5	0.251				
Carbon Black	585 (24 hr)	0.18	990'0				
Ethyl Benzene	585 (24 hr)	21.8	4.16				
n-Heptane	585 (24 hr)	82	5.00				
Hoxamethylene disocyanate 585 (24 hr)	585 (24 hr)	0.0015	0.00174				
n-Hexane	585 (24 hr)	6	3,34				
Isopropyl Alcohol	585 (24 hr)	49	3.18	100			
1-Methoxy 2-Propyl Acetate 585 (24 hr)	585 (24 hr)	3.6	7.13	0,000	Ċ		
Mothyl n-Amyl Katono	585 (24 hr)	11.8	10.88	0.000			
Methylcyclohexane	585 (24 hr)	80.5	5.00				
MEK	585 (24 hr)	29.5	11.62				
MIBK	585 (24 hr)	10.3	5.86				
Naphthalone	585 (24 hr)	2.5	0.46			7 (8)	
Propyl Alcohol	585 (24 hr)	25	8.26				
Silica- amorphous	585 (24 hr)	0.5	0.0126				
Silica- crystalline	585 (24 hr)	0,005	0.00837			0.00032	6.3%
Toluene	585 (24 hr)	18.8	24.14				
1,2,4-Trimethyl Benzene	585 (24 hr)	6.15	7.74				
Xvione	585 (24 hr)	21.8	48.0				

8	William DO	0000
Hazardous Air Pollutants	Controlled Emissions (tons/yr)	Major Facility Threshold (tons//yr)
Ethyl Bonzone	0.94	10
lexamethylene disocyanate	0.00045	10
n-Hoxane	1.15	10
MEK	1.5	. 10
MIBK	09:0	10
Naphthalone	0.12	10
Toluene	7.1	10
Xylene	6'6	10
Table 1	24.2	24

NAAQS Standard (ug/m3)

Critoria Pollutants	Controlled Emissions (tens/yr)	Major Facility Threshhold (tons/yr)
PM ₁₀ (Noto 7)	0.13	100
VOC (Noto 2)	19.0	100

packy of Sames MV gun is 12 ft, auroes per minute * 5.025 gallenthour.

Ex Partie eneme, if perior 1787 machiner, 1 part handenne, DTR77 reducen enly used occasionally in winter.

Ex Santie primer, 1 perior 1284-3.

Ex Santie 1284-3.

Ex

.10 used for equipment cleaning.

sed on Screen3 modeling.

Note 7: Based on combined coatings' solids control adjusted for coating retention and control equipment efficiency.

Note 8: American Flert AG-28 rated removal efficiency = 88.13%, 89% used for calculating controlled emissions of non-veloplation components.

The controlled components of components believe to the property of the prop

3/21/2007

Snake River Trailers Kit Avenue Site Table 5-4a

Particular Par											5	Uncontrolled Emissions with Essential Paint Mix	Emission	S WITH E	Ssentia	Paint Mix									
The column Arman Burkey Bury Bu	Product ID Name Manufacturer	Usago R	ato Basis'	AN D		Product Specific Gravity					0.000	7.00	Component oncontration MSDS, wt%)		- C. V.	ponent al to Emit	Toxic Air Pollutants - Paint Application	TAP Type (24 hr or Annual	TAP Screening Level		Uncontrolld Emissions (% of EL)	Allowable Ambient Sonc. (AAC,	Impact at 1 lb/hr Emissions	Peralstence Factor	
11.25pt Continue		Daily	Annual	galida	_	(MISDS)		T	_	-			-		(tp/day			Averaging)	(innu)	(In/In/)		mgmes	(cungin)		(cumfani)
This part This								-			Calcium Carbonate	1317-65-3	40%	ш	627.35	Н	Acetone	585 (24 hr)	119	29.8	25.0%	83			
Table Continuo C											Carbon Black	1333-86-4	5%		78.42	4	n-Butyl Acetate	585 (24 hr)	47.3	15.2	32.1%	35.5			
1, 25 mm Secretary			Confinitions								Methyl Ethyl Ketoxime	96-29-7	1.0%		31.37	4	Calcium Carbonale	585 (24 hr)	0.667	26.1	3919%	0.5			0.989
1, 25 cm 1, 2	ASP-435 Gray	The second	ing own							_	Naphtha (Stoddard Solvent)	8052-41-3	30%	_	941.03	-	Carbon Black		0.23	3.78	1643%	0.175			0.143
The control of the	ASP-901 Black		roseen collect		_	4 303		77440 70	1200	-0.0		8032-32-4	30%		941.03		Hexamethylene dilsocyanal		0.002	0.0036	181%	0.0015			00000
The control of the	3.5/2.8 VOC Shop		(accord ganyr		_	000		2011	7.02 20.7	_	(64741-84-0	10%	_	313.68		n-Hexane	585 (24 hr)	12	0.292	2.4%	8			
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Primors		2.5:1 Topcon								Silica- crystalline	14808-60-7	1.0%		15.68	Н	Isopropyl Alcohol		65.3	1.25	1.9%	49	0.0946	0.4	
Transfer	PPG		Mix to Primer								Tate	14807-96-6	30%	-	470.51	49068	1-Methoxy 2-Propyl Acetals		24	14.0	58.2%	3.6			
The participant of the partici											Titanium Dioxido	13463-67-7	5%	-	78.42	Н	Naphtha (Stoddard Solvent		35	39.2	112%	26.25			1,483
Figure 2 19 19 19 19 19 19 19 1								-2-			Xylones	1330-20-7	1.0%		31.37	Н	Parachlorobenzotrifluoride [®]		NOTE 8	13.9	NOTE 8	0.253			0.525
Figure F											Acotone	-	\dashv	Ц	30.02	\dashv	Silica- crystalline	585 (24 hr)	0.0067	0.6535	9754%	0.005			0.0247
11 12 12 13 14 15 15 15 15 15 15 15												107-83-5	5%	0.0%	2.00	1826	Totuono	585 (24 hr)	25	2.82	11.7%	18.75			
15 pilotico pir city	0.170										n-Hoxane	110-54-3	7%		7.01	Н	Xylana	585 (24 hr)	29	2.21	7.6%	21.75			
Figure 5 17 11 12 12 13 13 13 14 14 15 15 15 15 15 15	I power Thinner	15 gallor	us per day	¥	5475	O SO	_			- 1	_		30%		30.02	-									
Figure F	Dad Sad	(NC	Ne 5)	?	3	3	-			2	_		5%	0.0%	5.00	1826		1							
Fig.)			*							3-Mothylpentane	96-14-0	2%	0.0%	5.00	1826	Hazardous Air Pollutants	-	to Emit						
Figure F											Naphtha	64742-89-8	5%	0.0%	2.00	1826			dyr)						
11.25 gph Continuous 23.75 8796 810.0% 10.97% 4.10 Housenthilly changes 1.12 gph Continuous 2.15 gph C											Toluene	108-88-3	%02	Н	70.06	25570	Hexamethylene disocyanal		13						
1.1 Strate 23.7 Strate 23.7 Strate 23.1 Strate 23.1 Strate 23.1 Strate 23.2 Strate 2	ESH200 Single		50 000	8		200	_			179	20.00	822-06-0	0.18%		0.09	83	n-Hexane	+	8						
1, 25 ght of the property 1, 25 ght of the property 1, 2, 2, 3, 1, 2, 4, 2, 1, 2, 3, 3, 4, 3, 4, 3, 3, 4, 3, 4, 3, 3, 3, 3, 4, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	Stage Hardener PPG	30000 Lia	To Hardener	33.7		1,142					_	28182-81-2	100%		160.72	_	Toluene	12	8						
1.25 ght of Parishing Pari											Acetone		-	L	491.96	Н	Xylene		6						
Proposition		11.25 aph of									n-Butyl Acetate		\vdash	L	213.18	-	Total	16	0.						
Proceedings Procession Pr	ESSS9000 Black	topcon!	_	-	_				-	-		1333-86-4	1.5%	_	12.30	\vdash									
Puridine	Acrylic Polyester	activator and	-	200		0.971		84785 5	1.91% 45.1	_	-	_	7%	_	114.79	H									
Page 50 guilly Page 1 Page 1 Page 50 guilly Page 5 guilly Page 6 g	2	hardener	nog own								2-Methoxy 2-Propyl Acetate		1.0%	_	16.40	H	0 4 4 4 4 4	Potential	to Emit						
1.1.2 ght of primer 1.2.2 ght of primer			198550 gallyr	_							Methyl n-Amyl Kelone	110-43-0	10%	H	163.99		Challe Pollulans	(ton	ulyr)						
Accordance Acc				L							Acatone	67-64-1	Н	%0.0	150.97		PM ₁₆ (Note 7)	131	3.7						
Milk to Primer Milk			2.5:1 Topcom	_		14					Barium Sulfate	7727-43-7	5.0%		53.92		VOC (Note 2)	16:	0.7						
1.1.28 g/h of gray, at ammal 2.157 5127 5127 5127 5127 5127 5127 5127 5			Mix to Primer								n-Butyl Acetate	_	7%	-	150.97	-									
Proposition											1-Methoxy 2-Propyl Acetate	_	10%	1	215.67	+									
activator and support and state of the control	ESSS903653 While		_				-			174		_	1.0%	4	/6.13	1							Charles and Assess	of any assemblance	The Paris and Comments
Fundamer Tota of unmail Fundamen American Fundamen America	Acrylic Polyester	activator and	-			1.277	-	17770		. 2	_	110-43-0	0.76	0.0%	107.83	-	Note 1: Capacity of Sames	MIV gun IS 12 II	e annunzo	5	gallonmour. U	ncontrolled en	missions pass	o on commo	one, e gun oper
Principle Prin	2	hardener.	10% of annua	_							Naphtha (Aromatic)	64742-95-6	+	0.0%	107.83	1	Topcoal Mix: 6 parts acrys	c, 1 part activat	or, 1 part ha	dener					
6:1 Topopul lo Activator 33,75 8799 1.145 322 8,4026 0.29% 99,71% 22.14 Actobronzon 173,546 0.0% 0.0% 0.0% 0.09% 0.0032			topcoat white	_				_			Parachioroperizorniagoride	20-00-0-	+	+	101.00	1	rumer Mix. no adding 10,	printer.		and the same of the same	to a contract of the contract	Milliamida			
6:1 Topocat lo Adivator 33,75 8759 1.145 3.22 B4025 0.29%, 89,71%, 22.14 Acatylanelpror 19.54-6 40%, 70%, 0.0%, 225.00 58819											Hamman Dioxido	13403-01-1	3078	4	20.00	+	Nois Z. All Volume material	on are pourse	axcept tor	actions and pa	acinonomico.	mildonag.	The second second	The second second	54
6:1 Topopat le Activator 20,175 8799 1,145 3,222 8,025% 99,71% 22,14 Activatoremodificante 915,554 47% 70% 10% 225.60 58818								-			Xylanes	1330-20-7	1.0%	4	72.57	+	Note 3: Electrostatic conting	retention rate to	reported to	be 50-65% by	anddns und au	or for the Snak	te kiver appli	cation system	_
6:1 Topocat lo Adivator 33,75 8739 1.145 322 84025 0.29% 99,77% 22.14 Adaptication 127.54-6 30% 30% 0.0% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.530 1.00% 38.5	0.000							1			Zinc Suitide	1314-96-3	+	+	25.32	+	rot the non-voluing constitu	Deput in supp	incuminations,	or se coaling ray	Sing of the House	City handange	A D 4800	2	
6:1 Topocatio Adividor 35,75 6799 1,145 322 B4UZ2 0.25% 95,77% 2.2.14 Adisyndrotencer/fluente 99,56-6 40% 70% 0.0% 225,00 589818	ESX510		STORESTONE STORES	0.00	_	20000	-		_			67-64-1	†	-	41.90	+	Note 4: Per PPG, the maxin	num concentral	non of hexart	iethylane dispo	yanate in the E	lat ades to per	Es O. 167a, and		
Paraciporatedra Studies Adv. 70% 728 ub 588 ta	Standard Activator		Il lo Activator	33.7		1,145	1500			-	-	123-54-6	-	4	96.69	4	65-95% Is cridmically redu-	en and retaine	nu nue coan	dinxim noda bu	with deryne par	ide or iond mil	-dynd-		
Note 7: Board an examinate abandany solidar solidary solidar solidary solidar solidary solidar solidary solidar solidary	2										Parachlorobenzoirilludride	98-26-6	_	-	225.00	-1	Note 5: Dill'10 used for equ	ilpment cleaning							
Note 8: No Et 255 TAPs, exum of component labelacy divided by 2020. Note 9: For 555 TAPs, exum of component labelacy divided by 2020 tasky.																	Note 9: Dailed Oil Scientist	noughny.	the feelens and	minut for nonlin	melandor o				
Note 1: 10 SL Januaria or Pull 1: And Libraria or Pull																	Note 7. Based Of Compilier	Codully soll	Committee and	Dadi vi paran	in remaining				
Note 8: For 555 1 APVs, sum of companent layerday divided by 24 hrs. day. For 360 I APVs, sum of companent layerday divided by 6.0 to 18.5 pv.																	Note 8: No EL available for	PCBTF. AACT	or PCBTP pr	ovided by IDEC	1	0.0000000000000000000000000000000000000	The Control of the Co		
																	Note 9; For 585 TAP5, sum	of component it	salday divide	d by 24 hrs/day	. For 58b I AP	s, sum of com	ponent layyr o	livided by 670	50 hrs/yr.

		198%	81.7%	9.1%				5.6%	208%	494%		
		0.989	0.143	0.000				1,483	0.525	0.0247		
		7.75				0.4						
						0.0946						
89	35.5	0.5	0.175	0.0015	6	49	3.6	26.25	0.253	0.005	18.75	21.75
25.0%	32.1%	3919%	1643%	181%	2.4%	1.9%	58.2%	112%	NOTE 8	9754%	11.7%	7.6%
29.8	15.2	26.1	3.78	0.0036	0.292	1.25	14.0	39.2	13.9	0.6535	2.92	2.21
119	47.3	0.667	0.23	0.002	12	65.3	24	35	NOTE	0.0067	25	29
585 (24 hr)	585 (24 hr)	585 (24 hr)	585 (24 hr)	585 (24 hr)	585 (24 hr)	585 (24 hr)	585 (24 hr)	585 (24 hr)	585 (24 hr)	585 (24 hr)	585 (24 hr)	585 (24 hr)
Acetone	n-Butyl Acetate	Calcium Carbonale	Carbon Black	Hexamethylene dilsocyanate	n-Hexane	Isopropyl Alcahol	1-Methoxy 2-Propyl Acetate	Naphtha (Stoddard Solvent)	Parachlorobenzotrifluoride"	Silica- crystalline	Toluono	Xvlana
	585 (24 hr) 119 29.8 25.0%	585 (24 hr) 119 29.8 25.0% 585 (24 hr) 47.3 15.2 32.1%	596 (24 hr) 119 2.03 25.0% 89 856 (24 hr) 12 15.2 22.0% 89 856 (24 hr) 12 15.2 22.0% 8.55 856 (24 hr) 10 5687 25.1 3010% 0.5	586 (24 hr) 119 29.8 25.0% 89 586 (24 hr) 47.3 15.2 22.1% 35.5 0.689 586 (24 hr) 66 7 22.1% 35.5 0.689 0.689 586 (24 hr) 6.67 22.1 3.78 0.67 0.143 886 (24 hr) 0.23 3.78 1403% 0.75 0.143	SBS (24 hr) 119 29.8 25.0 hr, 89 28.0 kr, 89 28.0 kr, 89 28.0 kr, 89.0	586 (24 hr) 119 2.0.8 25.0 km 89 69 586 (24 hr) 47.3 115.2 20.1 km 815.5 0.089 586 (24 hr) 47.8 11.3 30.10 km 0.5 0.089 586 (24 hr) 0.53 2.7 1645 km 0.175 0.043 586 (24 hr) 0.2 2.7 1645 km 0.015 0.0015 586 (24 hr) 1.2 2.7 2.4 9	SBG (24 hr) 119 25.0 22.0 hr 35.6 26.0 hr 0.000 SBG (24 hr) 14.3 15.2 20.1 hr 35.6 0.000 0.000 SBG (24 hr) 12.3 13.6 10.175 0.175 0.000 0.143 SBG (24 hr) 12.0 10.000 11.8 0.001 0.004 0.000 SBG (24 hr) 12.0 12.0 2.4 hr 0.001 0.004 0.000 SBG (24 hr) 12.5 1.3 hr 4.9 0.004 0.4 0.000	586 (24 hr) 119 2.0.8 25.0 fw 69 586 (24 hr) 119 2.0.8 25.0 fw 69 586 (24 hr) 16.2 32.7 fw 15.2 32.7 fw 0.086 586 (24 hr) 0.687 2.6 fw 0.175 0.015 0.043 586 (24 hr) 1.0.2 0.003 0.0004 0.004 0.040 586 (24 hr) 1.2 0.772 2.4 fw 9 0.004 0.04 586 (24 hr) 1.2 0.727 2.4 fw 49 0.004 0.4 586 (24 hr) 1.2 0.737 2.4 fw 49 0.004 0.4	SBS (28 Hz) 110 22.0 22.0 fm 35.5 35.0 fm 35.6 35.6 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.7 35.2 35.7 35.7 35.7 35.7 35.7 35.2 35.7 35.7 35.2 35.7 35.7 35.2 35.7 35.7 35.2 35.7 35.7 35.2 35.7 35.7 35.2 35.7 35.2 35.7 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2 35.2	SBG (24 hr) 119 2.6.8 25.0 km 8.9 SBG (24 hr) 119 2.6.8 25.0 km 8.9 SBG (24 hr) 16.7 15.2 32.7 km 0.5.5 SBG (24 hr) 0.67 2.6.1 3.0.1 km 0.175 SBG (24 hr) 0.67 2.6 km 0.175 0.0143 SBG (24 hr) 0.60 0.175 0.0014 0.0040 SBG (24 hr) 1.2 0.60 0.175 0.0014 SBG (24 hr) 1.2 0.60 0.0044 0.0044 SBG (24 hr) 2.6 1.7 km 3.0 1.433 SBG (24 hr) 2.6 1.7 km 3.0 1.433 SBG (24 hr) 2.6 1.4 km 3.0 1.4 km SBG (24 hr) 2.6 1.4 km 3.0 1.4 km SBG (24 hr) 2.6 1.4 km 3.0 1.4 km SBG (24 hr) 2.6 2.6 km 3.0 1.4 km	SSE (24 hz) 119 2.0.8 25.0 /m 89 SSE (24 hz) 119 2.0.8 25.0 /m 89 SSE (24 hz) 115 23.7 /m 10.5 /m 0.0100 SSE (24 hz) 0.687 2.1 /m 0.015 0.0160 SSE (24 hz) 0.23 3.7 m 1043 m 0.043 0.043 SSE (24 hz) 0.23 2.4 m 9 0.0044 0.4 0.040 SSE (24 hz) 1.2 0.27 m 2.4 m 9 0.0044 0.4 1.483 SSE (24 hz) 1.2 0.27 m 2.4 m 9 0.0044 0.4 1.483 SSE (24 hz) 1.2 0.2 m 1.7 m 2.2 m 1.4 m 0.005 SSE (24 hz) 1.3 0.2 m 1.4 m 0.0044 0.04 0.025 SSE (24 hz) 1.3 0.2 m 0.005 0.005 0.005 0.005 SSE (24 hz) 1.3 0.0 m 0.0 m 0.0 m 0.0 m 0.0 m	SSE (24 In) 119 2.86 25.0% 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85 3.85

Hazardous Air Pollutants	Potential to Emit (tons/yr)
Hexamethylene disocyanate	0.0113
n-Hexane	1,3
Toluene	12.8
Xylano	1.9
Total	16.0

Criteria Pollutants	Potential to Emit (tons/yr)
PM ₁₀ (Note 7)	138.7
VOC (Note 2)	167.0

Table 5-4b: Controlled Emissions with Essential Paint Mix

				ĺ															
Product ID	Usago Rate Basis	to Basis	Kit A Propose	Kit Avenue Proposed Usage	Product Specific	Kit Avenue Proposed Usage			Volatile	Controlled	Component	CAS	Concentration	ation	Coating	Coating Spray Booth	Controlled	ated	Toxic Air Pollutants - P:
Manufacturer					(MSDS)		1	wt%)	(wt%)	(tons/vr)		Mumber	-		•(%)	(%)			Application
	Daily	Annual	gal/day	gallyr		lb/day	lb/yr		Ī				alb,	хеш			lb/day	1b/yr	
											Calcium Carbonate	1317-65-3		*40%	%0.03	%0'8G	12.547	185.88	Acetone
										-	Carbon Black	1333-86-4		5%	50.0%	26.0%	1.568	23.24	n-Butyl Aceta
											Methyl Ethyl Ketoxime	96-29-7		1.0%	%0.0	0.0%	31.368	464.70	Calclum Carbo
ACD-425 Cmu		-								12	Naphtha (Stoddard Solvent)	8052-41-3		30%	0.0%	%0.0	941.0	13941.1	Carbon Blac
ASP-901 Black	11.25 anh	2.5:1		0.000000	(0.0000)					-	Naphtha (V.M. & P.)	\vdash		30%	0.0%	%0.0	941.0	13941.1	Hexamethylene dis
3.5/2.8 VOC Shop	primor	Topcoat to	270	4000	1,393	3137	46470 70.12% 29.88%	0.12%	29.88%	6.94	Petroleum Distillates	64741-84-0		10%	0.0%	0.0%	313.676	4647.05	n-Hexane
Primors		Primer								1	Silica- crystalline	14808-60-7		1.0%	20.0%	98.0%	0.314	4.65	Isopropyl Alco
PPG											Talc	14807-96-6		30%	50.0%	98.0%	9.410	139.41	1-Methoxy 2-Propy
										1	Tlanium Dioxide	13463-67-7		5%	20.0%	%0'86	1.568	23.24	Naphtha (Stoddard
										_	Xylenes	1330-20-7		1.0%	0.0%	%0:0	31,368	464.70	Parachlorobenzotri
											Acetono	67-64-1	10%	30%	%0.0	%0:0	30.02	3122.5	Silica- crystall
										_	i-Hexano	107-83-5		2%	%0.0	0.0%	5.004	520.42	Toluene
00000000											n-Hexane	110-54-3		20%	%0.0	0.0%	7.006	728.58	Xylono
DTL10	15 gal per	ñ					_	,000	100000		Inopropyl Alcohol	67-63-0		30%	%0.0	%0:0	30.024	3122.50	
Laquer Thinner	day	wook	2	1560	0.80	200	10406	0.00% 1.00.00%	00.00.00	4.66	1-Mothoxy 2-Propyl Acetato	108-65-6		2%	0.0%	%0.0	5.004	520.42	
PPG	(c mov)	(c pign)								_	3-Mothylpentane	96-14-0		2%5	%0.0	0.0%	5.004	520.42	
										1_	Naphtha	64742-89-8		5%	0.0%	0.0%	5.004	520.42	Criteria Poliut
											Tolueno	108-88-3		70%	0.0%	0.0%	70.056	7285.82	
							_	, au	10000		Hoxamethytone Dilsocyanato (Note 4)	822-06-0		0.18%	85.0%	%0:0	0.043	4.3	7 *10
Stage Hardener PPG	6;1 Topcont to Hardener	lo Hardener	2	1997	7,142	0	500	W. 27'70	E 15.01	i o	Hexane-1,6-Disocyanate Polymer	28182-81-2		100%	50.0%	28.0%	1.607	158.7	Gian L
	11.25 gph of										Acetono	67-64-1	10%	30%	0.0%	0.0%	163.987	21865.0	
	topcont,	2000									n-Butyl Acetate	123-86-4		13%	0.0%	9,00	71.061	9474.8	
ESSS9000 Black	activator	300% of					00000	10.00	10000	-	Carbon Black	1333-86-4		1.5%	20.0%	28.0%	0.082	10.9	Hazardous Air Po
Acrylic Polyester	pue	Chicago	29	9006	0.977	750	/2883 54.91% 45.09%	94.91%	43.03%	12,73	1-Methoxy 2-Propyl Acetate	108-65-6		7%	0.0%	%0.0	38.264	5101.8	(HAPs)-
2	9 house par	dependence of reciny									2-Methoxy 2-Propyl Acetale 70657-70-4	70657-70-4		1.0%	%0.0	%0.0	5.466	728.8	Hexamethylene dis
	day and										Melhyl n-Amyl Ketone	110-43-0		10%	%0.0	%0.0	54.662	7288.3	n-Hexane
											Acatone	67-64-1	3%	%1	%0.0	%0.0	25,161	745.5	Toluene
											Barlum Sulfate	7727-43-7		2.0%	%0.03	98.0%	0.180	5.3	Xylene
	5.625 onh of										n-Butyl Acotate	123-86-4		7%	%0.0	0.0%	25.161	745.5	Total
	topcont.										1-Methoxy 2-Propyl Acetate	108-65-6		10%	%0.0	0.0%	35,944	1065.0	
ESSS903653 White		10% of									2-Methoxy 2-Propyl Acetate 70657-70-4	70657-70-4		1.0%	%0.0	0.0%	3.594	106.5	
Acrylic Polyestor	pue	total	ž	1000	1.277	359	10650	69,70% 30,30%	30,30%	1.40	Methyl n-Amyl Ketone	110-43-0		5%	%0.0	%0.0	17.972	532.5	Celtorin Bollut
PPG	hardener for	topcont									Naphtha (Aromatic)	64742-95-6		5%	%0.0	0.0%	17.972	532.5	
	8 hours per										Parachlorobenzofrifluoride	98-56-6	1%	2%	%0.0	0.0%	17.972	532.5	PM _{in} (Note
	day										Titanium Dioxido	13463-67-7		30%	20.0%	98.0%	1.078	32.0	VOC (Note)
										_	Xylenes	1330-20-7		1.0%	%0.0	0.0%	3.594	106.5	
											Zinc Sulfide	1314-98-3		5%	20.0%	98.0%	0.180	5.3	Note 1: Capacity of
ESX510				100000	000	2000	10000000	occorrant.	1000000000	10000	Acetone	67-64-1	7%	13%	%0.0	0.0%	20.949	2069.0	Topcoat Mix: 6 par
Standard Activator 6:1 Topcoal to Activator	6:1 Topconl	to Activator	17	1667	1,145	161	15916	0.29%	99.71%	4,19	Acetylacetone			30%	0.0%	0.0%		4774.7	Primer Mix: no add
PPG	Photographic and the state of t										Parachlorobenzotrifluoride	98-56-6	40%	70%	0.0%	0.0%	112,801	11140.9	Note 2: All volutile n

Toxic Air Pollutants - Paint Application	TAP Type (24 hr or Annual Averaging)	Allowable Amblent Conc. (AAC, mg/m³)	Total Controlled Emissions (lb/hr)**	Impact at 1 lb/hr Emissions (mg/m³)	Persistence Factor	Controlled Ambient Conc. (mg/m³)	Controlled Conc. (% of AAC)
Acetone	585 (24 hr)	88	10.0				
n-Butyl Acetate	585 (24 hr)	35.5	4.01				
Calcium Carbonate	585 (24 hr)	0.5	0.523			0.01977	4.0%
Carbon Black	585 (24 hr)	0.175.	690'0				
Hexamethylene disacyanale	585 (24 hr)	0.0015	0.00181				
n-Hexane	585 (24 hr)	6	0.292				
Isopropyl Alcohal	585 (24 hr)	49	1.25	0.0946	5.0		
1-Methoxy 2-Propyl Acetate	585 (24 hr)	3.6	3.30				
Naphtha (Stoddard Solvent)	585 (24 hr)	26.25	39.2				
Parachlorobenzotriflaoride ⁹	585 (24 hr)	0.253	5,45			0.20608	81.5%
Silica- crystalline	585 (24 hr)	0.005	0,0131			0.00049	%6'6
Toluone	585 (24 hr)	18.75	2.92	-			
Xvleno	585 (24 hr)	21.75	1.46				

Hazardous Air Pollutants (HAPs)-	Controlled Emissions (tons/yr)	Major Facility Threshold (tens/lyr)
lexamethylene disocyanate	0.0021	10
n-Hexane	0,36	10
Toluane	3.6	10
Xylana	0,29	10
Total	4.3	25

Controlled Conc. (% of NAAQS) 24.2% 1.6%

0.81 36.2

90.0 0.4

94.6

0.108 96'0

150 S

Controlled Controlled Factor Impact (ug/m³)

Impact at 1 Ib/hr Emissions (ug/m³)°

NAAQS Controlled Standard Emissions (ug/m³) (lb/hr)

Averaging Period 24-hr11 Annual

Controlled Emissions Major Facility Th (tons/yr) (tons/yr)
Controlled Emissions (tons/yr)

Note 1: Capacity of Sames MIV gas last 128, currons par minuto * 5.025 pallou/hour.

Topound Mix & part and expect 1 part handwar.

Topound Mix & part and expect 1 part handwar.

Primar Mix and expect of patients of patients of part handwar.

Primar Mix and expect of patients on the irroported to be 50.65% by the gain mappient of the Snake River application system.

Note 2: Part Post, the measurement consoneration of houmenthylene discognated in the ESH handware to 0.18%, and Mote 3: Far PPOS, the measurement consoneration of houmenthylene discognated in the ESH handware to 0.18%, and 6.55% is chemically reduced and relationed in the configuration measurement of patients of patients of Secretarian redeling.

Note 5: Standard on Screen's redeling or patients of pat

Table 5-5a:

Snako Rivor Trailers Kit Avonue Site Table 5-5a

												Uncontrolled Emissions with Combo Paint Mix	led Em	issions	with Co	mbo Pa	int Mix	
Product ID Namo Manufacturer	Usage F	Unago Rato Basin'	Kit Aveni Unrostrict Usago	Kit Avenue Unrostricted Usage	Product Specific Gravity	Kit Avenue Unrestricted Usage	Kit Avenue Unrestricted Usage	Solids Content (MSDS	Volatile Content (wt%)	VOC PTE ² (tons/yr)	Component	CAS Number	Component Concentration (MSDS, wt%)		Coating Retention (%) ³	Component Potential to Emit	ment to Emit	Toxic Air Pollutants - Pa Application
	Dally	Annual	galiday galiyr	gallyr	(cnem)	(lp/day	lb/yr	WC7e)					mln²	max		lb/day	lb/yr	
											Barium Sulfale	7727-43-7		30%	20.0%	301.29	31420	Acetone
											Calcium Carbonate	1317-65-3		30%	50.0%	301.29	31420	n-Butyl Aceta
		Continuous two				2					Carbon Black	1333-86-4		2%5	20.0%	50.22	5237	Calcium Carbor
		gun operation									Epoxy Resin	25068-38-6		30%	20.0%	301.29	31420	Carbon Blac
		(98550 gal/yr)									Ethyl Benzene -	100-41-4		1%	%0.0	20.09	2005	Ethyl Bonzon
	11.25 nob of	2.5-1 nervie									Methyl n-Amyl Kalona	110-43-0		13%	0.0%	261.12	27231	Hexamethylene disc
DP50LF Gray	primor and		007	*0.2.0	1 220	0000	200460	1920 00	97 79aV	30 69	Methyl Isobutyl Ketone	108-10-1		77%	0.0%	140.60	14563	Principle of Alexander
DP90LF Black	catalyst	_	180	18771	1.338	2002	209469 62.27% 37.73%	62.27%	37.7378	38.95	Naphiha (Aromatic)	412026.00.8		1 50	50.0%	15.06	1674	1-Methowy 2-Propyl
PPG		90% of annual									Silca- crystaline	14808-60-7		1.0%	50.0%	10.04	1047	Methyl n-Amyl K
0.000000		acrylic black									Talc	14807-96-6		2%	50.0%	50.22	5237	MIBK
		10% of annual									Titanium Diaxide	13463-67-7		10%	20.0%	100.43	10473	Parachlorobenzolni
		acrylic white									Toluane	108-88-3		2%	0.0%	140.60	14663	Propyl Alcoh
											1,2,4-Trimethyl Benzene	95-63-6		2%	%0.0	100.43	10473	Silica- amorpho
											Vinyl Resin	25086-48-0		2%	50.0%	50.22	5237	Silica- crystall
											Xylonos	1330-20-7		5%	0.0%	100.43	10473	Tolnane
											2-Butoxy Ethanol	111-76-2		10%	0.0%	66.05	6888	1,2,4-Trimethyl Be
D 4040F											Isopropyl Alcohol	67-63-0		7%	0.0%	46.24	4822	Xylone
Front Primer											Naphtha (Aromatic)	64742-95-6		13%	0.0%	85.87	8955	
Calalysi	2:1 Prime	2:1 Primer to Catalyst	8	9386	0.880	661	68884	29.77%	68884 29.77% 70.23%	24,19	Polyamide Resin	80100337-5132		30%	20.0%	99.08	10333	
PPG			8								Propyl Alcohol	71-23-8		30%	0.0%	198.16	20865	Hazardous Air Pol
25											1,2,4-Trimothyl Benzene	95-63-6		7%	0.0%	46.24	4822	4 1 1 1
											Xylenes	1330-20-7	1000	30%	0.0%	198.10	COOR	Linear all along die
											Acetone	107.03.5	1078	50%	0.0%	5002	1826	on Hexame
											Preximo	107-83-5		2707	0.0%	200	2557	MIRK
DTL10	AC order	ness than dies.		-	9	8		0.00000	National Control		Isonrow Alcohol	67.83.0		30%	0.0%	30.02	10959	Tolugue
Laquer Thinner	N. C.	(Note 5)	15	5475	0.80	100	36529	0.00%	0.00% 100.00%	16,44	1-Methoxy 2-Propyl Acetate			5%	%0.0	5.00	1826	Xylene
PPG		6			31						3-Methylpentane	1		5%	0.0%	5.00	1826	Total
					-					600.5	Naphtha	64742-89-8		5%	0.0%	5.00	1826	
										A	Tolunno	108-88-3		70%	0.0%	70.06	25570	
ESH200 Single											Hexamethylene Dilsocyanati	822-06-0		0.18%	85.0%	0.17	23	
Stage Hardener		6:1 acrylic to Hardener	67.5	8799	1.142	643	83805	89.03%	10.97%	4,60	Hexane-1,6-Dirocyanate	0 50 00500		40004	EQ. 000	254.44	44007	The state of the s
PPG											Polymer	2-10-20102		97.001	30.076	961.99	COCIL	Critoria Polluta
	State of the										Acelane	67-64-1	10%	30%	0.0%	491.96	115435	PART AND
ESSS9000 Black	Τ.										n-Bulyl Acetalo	123-66-4		1.57a	0.0%	213.18	20005	Tatal Oly
Acrylic Polyostor		acrylic,	202.5	47515	0.971	1640		54.91%	384785 54.91% 45.09%	67.51	1 Malhow 2 Dragal Acatala	1		707	0.00	114.70	28036	
PPG	hardener	gun operation									2-Methoxy 2-Propyl Acetate	┸		1.0%	0.0%	16.40	3848	
		(98550 gal/yr)									Mathyl n-Amyl Katona	110-43-0		10%	0.0%	163.99	38478	
											Acetone	67-64-1	3%	2%	0.0%	150.97	3936	
		2.5:1 nerylic									Barium Sulfate	7727-43-7		5.0%	50.0%	53.92	1406	
		With 10 Primer									n-Butyl Acetate			7%	0.0%	150.97	3936	Note 1: Capacity of
CHOCOCOCC	_	leanura no %06 no sum su se se									1-Methoxy 2-Propyl Acetate	_		10%	0.0%	215.67	5623	Topcout Mix: 6 par
ESSSB03033		acrylic black		_							2-Methoxy 2-Propyl Acetate			1.0%	0.0%	21.57	562	Primer Mix: 2 purts
Acrylic Polyester	5		202.5	5279	1,277	2157	56227	69.70%	69,70% 30,30%	7.39	Methyl n-Amyl Ketone	110-43-0		2%	0.0%	107.83	2811	Note 2: All volatile n
PPG		1									Naphtha (Aromatic)	9		5%	0.0%	107.83	2817	Note 3: Electrostalic
		acrylic white									Parachlorobenzolnfluoride	98-96-6	2	0.00	0.076	107.63	1197	For the non-volume
											Mahirm Dioxide	1330.50.7		1 0%	20.070	24.67	582	85-95% is chemica
											Zine Sulfide	1314-98-3		25%	20.0%	53.92	1406	Note 5: DTL10 used
ESX510											Acetone	67-64-1	7%	13%	0.0%	41.90	10923	Note 6: Based on S
Standard	6:1 acry	6:1 acrylic to Activator	33.75	8799	1.145	322	84025	0.29%	99,71%	22.14	Acetylacetone	123-54-6		30%	%0.0	96.69	25208	Note 7: Bused on co
Activator PPG	2		- 12								Parachiorobenzotrifluoride	Ш	40%	70%	0.0%	225.60	58818	Note 8: No EL avail
																		Note 9: For 585 TAP

TAP Type TAP (24 hr or Screening Annual Lovel Averaging) (lb/hr)	Screening Uncontrolle Level d Emissions (Ib/hr) (ib/hr)*	Uncontrolled Emissions (% of EL)	Allowable Amblent Conc. (AAC, mg/m³)	Impact at 1 lb/hr Emissions (mg/m³)*	Parsistance Factor	Uncontrolld Ambient Conc. (mg/m³)	Uncontrolld Conc. (% of AAC)
585 (24 hr) 119	29.8	25.0%	88				
585 (24 hr) B	6.94	86.7%	9				
585 (24 hr) 47.3	15.2	32.1%	35.5	2			
585 (24 hr) 0.667	12.6	1882%	0.5			0.475	95.0%
585 (24 hr) 0.23	4.70	2042%	0.175			0.178	101.5%
585 (24 hr) 29	0.84	. 2.9%	21.75				
585 (24 hr) 0.002	0.0072	362%	0.0015			0.0003	18.2%
585 (24 hr) 12	0.29	2.4%	6				
585 (24 hr) 65.3	3.18	4.9%	49				
585 (24 hr) 24	14.0	58.2%	3.6	0,0946	0.4		
585 (24 hr) 15.7	22.2	141%	11,75			0.840	7.1%
585 (24 hr) 13.7	5.86	42.8%	10.25				
585 (24 hr) NOTE B	13.9	NOTE 8	0.253			0.525	208%
585 (24 hr) 33.3	8.26	24.8%	25				
585 (24 hr) 0.667	0.628	94.1%	0.5				
585 (24 hr) 0.0067	0.4185	6246%	0.005			0.016	317%
585 (24 hr) 25	8.78	35.1%	18.75				
585 (24 hr) 8.2	6.11	74.5%	6.15				
585 (24 hr) 29	400	AG ORC	34.75				

Hazardous Air Pollutants	Uncontrolled PTE (tens/yr)
Elhyl Benzene	1.0
Hexamethylene disocyanate	0.011
n-Hexane	1.3
MIBK	7.3
Toluene	20.1
Xylene	15.9
Total	45.6

Critoria Pollutants	Uncontrolled PTE (tons/yr)
PM ₁₀ (Note 7)	119.1
VOC (Note 2)	181.8

5.625 gallon/hour. Uncontrolled emissions based on continuous, 2 gun operation. Note 1: Capacity of Sames MIV gan is 12 float-iminute ** 5625 gallourhour. Uncantrolled emissions based on continuous, 2 part Propant Mac is care acycle; 1 part activator, 1 part hardoner.

Primar Mix. 2 parts primar; 1 part activator, 1 part hardoner.

Primar Mix. 2 parts primar; 1 part activator, 1 part hardoner.

Neb. 2. Al volatile material counted as VOC occeps for another on an parableocenconfinantia.

Neb. 2. Al volatile material counted as VOC occeps for another on an parableocenconfinantia.

Neb. 2. Ene PPC, in ematerial counted and VOC occeps for another on any parts of the first his standard on system. For the renamental counter adjustment on the canaditions, 57% couldny retending was assumed.

Neb. 4. Ene PPC, in ematerial counter adjustment of the counter of the canadition of the

Table 5-5b: Controlled Emissions with Combo Paint Mix

	-		Γ	1								Common		Carrie Dooth	Ferimated		ADDRESS SERVICE	-	Allowable Total	at Impact at	-	Controlled	_
Kit Avenue Proposed Usage	Kit Avenue Product Kit Avenue Solids Volatile Proposed Usage Specific Proposed Usage Gravity Gravity	Product Kit Avenue Solids Volatile Specific Proposed Usage (MSDS (we's))	Product Kit Avenue Solids Volatile Specific Proposed Usage (MSDS (we's))	Kit Avenue Solids Volatile Proposed Usage (MSDS (wew.)	Solids Volatile Content Content (MSDS (wt%)	Solids Volatile Content Content (MSDS (wt%)			۳, ñ	Component	CAS Number	Concentration (MSDS, wt%)	Coating Retention (%) ³	Filter Filter Efficiency	Controlled		Toxic Air Pollutants - Paint Application		Ambient Controlled Conc. Emissions (AAC, Amberto		Porsistance ns Factor		Controlle Conc. (% of AA
_	galiday galiyr (MSDS) lb/day lb/yr	galfyr (MSDS) lb/day lb/yr	(MSDS) Ib/day Ib/yr wt%)	lb/day lb/yr wt%)	(b/yr wt%)	(man)	_		5			min max		(%)		lblyr	4717 Action 10 Const. 4717	-	-	-			
		\vdash								Barlum Sulfate	7727-43-7	30%	20.0%	98.0%		119.03	Acolone	585 (24 hr)	1	01			
					_		_			2-Buloxy Ethanol	111-76-2	2%	0.0%	0.0%	100.43 19	119 03	2-Butoxy Ethanol	585 (24 hr)	35.5 4.01	194			-
							_		1	Calcium Carbonale Carbon Black	1333-86-4	30.va	50.0%	98.0%	+	19.84	Calcium Carbonate		+	51			Ц
						_	L	L	4	Epoxy Resin	25068-38-6	30%	20.0%	%0'86		119.03	Carbon Black	Н		45			
										Ethyl Bonzone	100-41-4	1%	260.0	%0'0		396.76	Ethyl Bonzono	585 (24 hr)	+	¥.	_		1
2.5.1							_	Ц	-,	Methyl n-Amyl Ketone	110-43-0	13%	0.0%	0.0%	+	5157.90	Hexamethylene disocyanate	585 (24 hr)	0.0015 0.0018	918			1
2000 2000	4000 00 0000 000 0000 0000 0000 0000 0	484.40 May 60 04.000 0000	Week 20 1000 00 00000 00000 00000	Merete Mrees aroun none	1900 TP 1900	WAT TO WELL AND		9	-1	Methyl Isobutyl Ketone	108-10-1	7%	0.0%	0.0%	100.43 19	1983.81	Isopropyl Alcohol	585 (24 hr)	49 3.18	2 2	_		
to Primer 180 3556 1,338 2009 39576 52,73% 37,73%	180 3556 1,338 2009 39576 62.27% 37.13%	3556 1,338 2009 39575 52.776 37.7376	1,338 2009 39676 62.27% 37.13%	Z009 396/6 52.27% 37.73%	39575 56.27% 31,13%	DZ.Z.(76 31.1378	_	2		Naphina (Aromanc)	112026-00-8	1 567	20.0%	98.0%	+	5.95	1-Melhoxy 2-Propyl Acetate	585 (24 hr)		3.30 0.0946	0.4		L
WIX	I I I I I I I I I I I I I I I I I I I									Cities amorphous	14808-R0-7	1 0%	╀	28.0%	H	3.97	Methyl n-Amyl Kelone		100	Г	,		
							_	1		Tale	14807-96-6	25%	+	98.0%	+	19.84	MIBK	L	H	5.86			
							1			Titanium Dioxide	13463-67-7	10%	H	%0.86		39.68	Parachlorobenzotrifluoride ⁹	Ц	_	15		0.20608	81.5%
	85									Toluene	108-88-3	7%	0.0%	%0.0		2777.33	Propyl Alcohol	585 (24 hr)		92			
									1-	1,2,4-Trimethyl Banzane	95-63-6	265		%0.0	100.43 19	1983.81	Silica- amorphous	4	+	13			1
										Vinyl Resin	25086-48-0	5%	20.0%	98.0%	1.00	19.84	Silica- crystalline	585 (24 hr)	0.005 0.0	0.0084		0.00032	6.3%
										Xylenes	1330-20-7	5%	%0°C	%0:0	100.43 19	1983.81	Toluone		+	8.78			
										2-Buloxy Ethanol	111-76-2	10%	0.0%	%0.0	66.05 13	1304.75	1,2,4-Trimethyl Benzene	585 (24 hr)	6.15 6.11	-			
										Isopropyl Alcohol	67-63-0	7%	%0.0	%0.0	46.24 9	913.32	Xylene	585 (24 hr)	21.75 12	12.59			
								_	12	Naphtha (Aromatic)	64742-95-6	13%	0.0%	0.0%	85.87 16	1696.17							
2-1 Defense to Catallust 90 1778 0.880 661 13047 29,77% 70,23% 4.58	90 1778 0.880 661 13047 29,77% 70,23% 4.58	1778 0.880 661 13047 29,77% 70,23% 4.58	0.880 661 13047 29,77% 70,23% 4.58	661 13047 29,77% 70,23% 4.58	13047 29,77% 70,23% 4.58	29,77% 70.23% 4.58	70.23% 4.58	L			80100337-5132	30%	1	%0.86	-	39.14		_		Controlled Impact at	_	Controlled	Control
									1	Propyl Alcohol	71-23-8	30%	%0.0	0.0%	198.16 39	3914.24	Critoria Pollutants	Averaging St	Standard Emis			Persistence Emissions	
1,2	1,2	1,2	1,2	1,2	1,5	1,2	1,2		10	1,2,4-Trimethyl Benzene	95-63-6	2%		%0.0	Н	913,32					Factor	Impact	£
								L		Xylenes	1330-20-7	30%	%0.0	0.0%	198.16 39	3914.24			-	(ngim3)		(ugu)	-
								-		Acelone	67-64-1	10% 30%	0.0%	%0.0		3122.50	PM7	24-hr"	1	0.60	1	22.8	15%
										i-Hexano	107-83-5	2%	%0:0	0.0%		520.42	0	Annual	50 0.	0.103	0.08	0.78	4
								L		n-Hexane	110-54-3	%2	0.0%	%0'0	7,01 7.	728.58	A STATE OF THE STA				Γ		
30 gal per	1000 CO 1000 C	THE COLUMN TWO IS NOT THE PERSON	100000000000000000000000000000000000000	100000	1000000	1000 000			1	Isopropyl Alcohol	67-63-0	30%		%0.0		3122.50	Hazardous Air Pollutants	Controlled Emissions	-	Major Facility	_		
2007	0001 0001 0000 00101 001 000 0001 GL	1260 0.501 0.501 0.501 0.501 0.501 0.501	0.50	100 10400 0000 0000 0000	10400	2007	9			1-Melhoxy 2-Propyl Acetate	108-65-6	2%	0.0%	0.0%	+	520.42		(tons/yr)	ıuı	information (tonsolyr)	T		
	(Noin 5)							_		3-Methylpentane	96-14-0	%5	0.0%	0.0%	+	520.42	Ethyl Benzene		1	10	Т		
										Naphtha	64742-89-8	2%	%0.0	0.0%	1	520.42	Hexamolhylene disocyanale			10	Т		
									L	Toluene	108-88-3	70%	0.0%	%0.0	70.06 72	7285.82	n-Hexano	0.36		10	Т		
									HG	Hexamethytene Direcyanate	822-08-0	0.18%	85.0%	0.0%	0.04	4.29	MIBK	4.		10			
8:1 acrylic to Hardener 17 1667 1,142 161 15874 89,03% 10,97% 0.87	17 1667 1,142 161 15874 89,03% 10,97%	1667 1,142 161 15874 89.03% 10.97%	1,142 161 15874 89.03% 10.97%	161 15874 89.03% 10.97%	15874 89.03% 10.97%	89.03% 10.97%	_	78.0	I	Hexane-1,6-Dilsocyanate	20102.01.0	100%	50.0%	28 ne.	161	158.74	Toluene						
									١.	Polymor	20102-01-2	-	+		-1	00.00	3	0.0		2 9	Т		
CONT. ALTO CO. ACTOR.								_		Acetono	67-64-1	10% 30%	0.0%	0.0%		21864.98	Xylana	30		01	Т		
11.25 gph of										n-Butyl Acetate	123-86-4	13%	-	0.0%	1	9474.82	Total	0.0		67	1		
1000	1000 St. 1000 t.3. 000000	1000 St. 100	1000 Ta 1040 AT 100000	1800 35 1910 53 Canner 25 170 181	1000 at 0404 at 00004	, and a se one	10000	04.0		Carbon Black	1333-86-4	1.5%		98.0%	1	10.93			ļ		Γ		
Chicago St. 68 9000 U.S/1 Shi recom Chicago St. 178 4000	58 9000 0.371 Sec. 50031 5.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	MUUU 0.30.0 00.10.10 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00	U.S.1. 2010 0113.10 00031 115.0	C. C	12000 04:01 08 40:00 08 12:00	0.000	20.00	Н		1-Methoxy 2-Propyl Acetale	108-65-6	7%	4	0.0%	1	5101.83	Critoria Pollutants	Estimated Controlled		Major Facility	-		
X. Indiana		Ċ.	Ž.	2	ż	2	2	2		2-Methoxy 2-Propyl Acetate	70657-70-4	1.0%	0.0%	0.0%	5.47	728.83		Emissions (tonsy)	+	demon troums			
nours per any.										Methyl n-Amyl Ketone	110-43-0	10%	-	0.0%	54.66 72	7288.33	PM ₁₀ (Note 7)	0.45		100	1		
								-		Acatona	67-84-1	3% 70%	0.0%	0.0%	7 25.16 7	745.51	VOC (Note 2)	36		100			
											7 04 TOTT	-	H	28 D%	H	5.33							
							_			Banum Sullain	1121-43-1	200	+	2000	+	2000	and the state of Comment of State or and State or and State or and State of	the same to the later	trains not mine		5.625 million/hour		
										n-Butyl Acetate	123-86-4	7%	-	0.0%	1	745.51	Note 1: Capacity of Sames in	IN gun is 12 libit of	ancen per mine		oca gallanianoa		
\$ 100 July 1									7	1-Melhoxy 2-Propyl Acetate	108-65-6	10%	0.0%	%0:0	35.94 10	1065.02	Topcoal Mix: 6 parts acrylic, 1 part activator, 1 part hardener.	, 1 part activator, 1	part hardener.				
.,							_	_	0	2 Mathews 2 Brood Acetalo	70557.70.4	1.0%	H	%0.0	3.59	106.50	Primer Mix: 2 parts primer, 1 part catalyst.	1 parl catalyst.					
parylla, toward			100000000000000000000000000000000000000			100000000000000000000000000000000000000			_	BIDDXY 4-F10pyl Manner	Charles and	100	+	0.00	1	2000	All and the section of the section of the section of the section and parachlerophoractification	OUT and best	andless see see	dorothorop	annotelli norde		
activator and	34 1000 1.277 359 10650 69.70% 30.30%	1000 1.277 359 10650 69.70% 30.30%	1.277 359 10650 69.70% 30.30%	359 10650 69.70% 30.30%	10650 69.70% 30.30%	69.70% 30.30%	30.30%	1.40		Methyl n-Amyl Kelone	110-43-0	5%	+	0.0%	1	132.51	Note 2: All votalite material of	ounted as you exc	apt for acetoria	and paracalorop	oneonimonae.		CONTRACTOR
total acrylic		The state of the s	- Contraction of the Contraction	-					L	Naphtha (Aromatic)	64742-95-6	5%	0.0%	0.0%	17.97	532.51	Note 3: Electrostatic coating retention rate is reported to be 50-65% by the gun supplier for the Snake River application by	otention rate is repo	orled to be 50-6	5% by the gun si	applier for the S	nako Rivor i	pplicallo
-						_			۵	Parachlorobanzohilluorida	98-56-6	1% 2%	0.0%	0.0%	17.97 5	532.51	For the non-volatile constituents in these calculations, 50% couling retention was assumed.	ents in those calcult	illons, 50% cos	ing retention wa	s assumed.		
Ann and support									1	Tree of the County of the Coun	42403 67 7	2007	ł	OR OW.	1	31.95	Note 4: Per PPS the maximum concentration of hexamethylene discovanate in the ESH hardener is 0.18%, an	um concentration of	hexamethylene	disocvanale in	the ESH harde	ner is 0.18%	Dr.
									1	Hamium Dioxido	1-10-0000	100	+	2000	+	400 00	85.05% is chemically andured and retained in the couling upon mixing with paint prior to spraying.	and retained in the	contine appr	Ining with paint	prior to spravin	r	
						_	_		_	Xylanes	1330-20-7	1.0%	+	0.0%	+	06.50	85-95% is enormently received	and remained as an	Committe observe	d cons Fugge	man and an analysis		
										Zinc Sulfide	1314-98-3	-	+	98.0%	1	5.33	Note 5: DTL10 used for equipment cleaning.	pment cleaning.					
								10		Acetone	67-64-1	7% 13%	-	%0.0	\rightarrow	2069.02	Note 6: Based on Screen3 modeling.	vodeling.		***************************************		With A District Control	0.000
Sandard Activator 6:1 aerylic to Activator 17 1667 1.145 161 15916 0.29% 99.71% 4.1	17 1667 1,145 161 15916 0,29% 99,71%	1667 1,145 161 15916 0,29% 99.71%	1,145 161 15916 0,29% 99,71%	161 15916 0.29% 99.71%	15916 0.29% 99.71%	0.29% 99.71%	200	4	4.19	Acetylacetone	123-54-6	Н	Н	%0.0	48.34 4	4774,65	Note 7: Based on combined coatings' solids content adjusted for coaling retention and control equipment efficiency.	contings' solids con	ent adjusted fo	coating retentio	n and control e	quipment of	cionay.
or angle to version							_		0	Parachlorobenzolrifluoride	98-26-6	40% 70%	H	%0.0		11140.85	Note 8; American Filter AG-28 rated removal efficiency = 98.13%, 98% used for calculating controlled emissions	8 rated removal off	ciency = 98.13°	6. 98% used for	calculating co	trolled emis	lons
								l	ł			ł					algonousce allular age to						

Controlled Conc. (% of AAC)

pplication system.

Note is, American lard Accept cated crimoval enlicency *9 tis.1.7m. servi pieco for carpanang conviction enlications of Christ-Vebilla for Property and Poly PCBTF, produced by IDEC.

Note is Not La verplande for PCBTF, and Che PCBTF produced by IDEC.

Note 10; For SES TAPs, aum of component beliefully included by 24 includes, PCB SES TAPs, aum of component Buyld wholed by 87 to Include. The SES TAPs, aum of component Buyld wholed by 87 to Include. The SES TAPs, aum of component Buyld wholed by 87 to Include. The SES TAPs, aum of component Buyld and cooling with lightest solded content. The highorst soldes conting is: Printer.

Note 11 Based on two gurs, 24 ft max capacity and cooling wit highest solded content. The highorst soldes conting is:

3/21/2007

		Eouth Impact (mg/m3)	0.810 1.38(-0) 8.716-0 8.767 6.710 7.60(-0) 8.0000 8.0000 8.0000	1,864-40 1,801-40 2,851-0 6,197 5,1111-0	0.182 0.124 0.120 0.120 0.180 0.180 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480 0.480	6.312 4.75f-6 6.315 6.203 5.00f-ff 1.706	Booth Linistor Japaci (19/m3	57						
Column C		Peralatence Factor		0.4 0.4 0.4 0.125	700 700 700 700 700 700 700 700 700 700	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8	10 al						
					0.0940		1	Tirrehold (yr)		Tirreshinkd (yr)		ation system. In the ESI	Tichency rations.	f mees will be seep Total
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7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	2.0 7.0 7.0 11.0 11.0 12.0 12.0 12.0 12.0 12.0 12	13 73 73 73 73 73 73 73	Nickel	5.381.05	\$3ME-05	30
24.2 24.3	26,2 94,3	26.7 24.3 26.7 24.3 Cortrolled Entertone Controlled Entertone (W/Hz)	Tolineire	7.0	7.0	30
26.2	26.2 34.3	26,2 24,3 Controlled Enteriors Controlled Interiors (8,10)	Aylene (Ritte 33)	13.8	0.0	30
		Controlled Emissions Controlled Emissions (Brins)	Total (Note 11)	26.2	24.3	25
Controlled Emissions Controlled Emissions (W/tr) (W/tr) (tons/yr)	0.04 0.58		VOC (Node 21)	104.0	645	180

venue Criteria ts - Facility Total	Controlled Enteriors (th/hr)	Controlled Entwines (tons/yr)	Major Facility Toreshibited (tons/yr)
, (Note 7)	96.0	0.68	100
(Node 7)	304.0	6.85	180

CAS Number (MSDS, wty) Retention (MSDS, wty) (Ky)

Controlled Annual VOC Unitarion Days

Solida Volatile (MSDS (wt%) (wt%)

Rit Avenue Proposed Usage Ibiday Ibiyr

Product Specific Gravity (MSD3)

Kit Avenue Proposed Permit Limita' gal/day gallyr

Product ID Name Manufacturer

260

6.94

29.88%

70.12%

40470

2137

1,303

4000

270

ASP-435 Gray ASP-901 Black 3.5/2.8 VOC Shop Primers PPG

200

6.73

55.21%

44.79%

1139 24312

0.948

3075

ž

DAR-Acrylic Enamels PP.C

200

7,48

37.73%

62,27%

2000

1,336

3556

100

DP50LF Gray OP90LF Black Epoxy Primers PPG

						Dry Room Controlled Emissions					
of Res	Spray Booth Dry Room Filter Release Utfolency Rate	Dry Room Release Rate	Controlle Controlle Emission	rolle	224	Toxic Air (24 ir or Pollutents - (24 ir or Pollutents - Armual Dry Room Exhaust	- 0	0.0	Maximum Impact at 1 lbftr Emissions	Persistence Factor	Dry Room Impact (mg/m3)
(74) (74) Ib/day Ib/yr	(%)	lb/dny	_	_	=	Christian	freudha fr	Council	(mg/m3)		
50.0% 90.0% 0% 0.00 0.0	0.00	000	H	0.0	Ĺ	Acelone 585 (24 hr)	69	2,22		0.4	0,1810
50.0% DR DY, 0% 0.00 0.0	000 %0	000		0		2-Butoxy (thanol 545 (24 hr)) ((0.60		0.4	0,0550
0.0% 0.0% 10% 3.34 46.5	10% 3.14	3.34	ľ.	110	,	n-flutyl Acatala 585 (24 hr)	35.5	0.74		D.4	D.0004
0,0% 0.0% 10% 04.10 1394.1	10% 04.10	04.10		1384	-	Calcium Carbonale 505 (24 hr)	900	GG+30:0		0.4	0,000
0.0% 0.0% 10% 94.10 1384.1	10% 94.10	94.10			-	Carton Black 505 (24 hr)	0.175	00+300		5.0	DODGG G
0.0% 0.0% 10% 31.37 484.7	10% 31.37	31.37		4004	L	Elbyt Borcorn 505 (24 hr)	21.75	0.62		0.4	0.0339
50 5% ON 0% 0.00 0.00	00.0	0.00		0.0		n-Haptana 585 (24 hr)	3 112	0.50		0.4	0,0400
50.0% 00.0% 0% 0.00	00'0 540	0.00		00		Hexamultylana dinocyanala 505 (24 hr)	0.0015	andono.		D.4	0,000
00 00'0 % 04'0 % 0'00 0'0	00'0 %0	0,00		00			0 0	0.33		0.4	0,0272
0.0% 3,14 48,5	10% 3,14	3.14		48.5		Inopropy Alcohol SRS (24 hr)		0.32		0.4	0.0259
000 50	000 %0	000		00		alala	Ц	1.02		0.4	0,0003
0.074 0.0% 10% 7.07 170.2	10% 7:07	202	Н	170.2		Melhyl n-Amyl Kelone 505 (24 hr)	11.75	1.39	0.0000	0.4	0.1134
0.0% 0.0% 10% 7.07 170.2	107 7.07	7.07		170.2		Methycyclehuxana 585 (24 hr)	3 00 2	0.50	0.6030	0.4	0.0400
50.0% 00.0% 00% 0.00	000 40	000		0.0		MUK SUS (24 hr)	202	1.16		0.4	0.0948
0.0% 0.0% 10% 70.70 1701.8	10% 70 70	20.70		1701	-	MBK 595 (24 hr)	10.25	0.50		0.4	0.04711
20.00	000 %0	000		0.0		olvert)		3.05		0.4	0,3158
	10% 10.04 1	10.04	٦	108		Maphthalana 505 (24 hr)		90.0		0.4	0.0037
	00'0 %0	00'0		D.D		Parachiorobencofrilliprids 585 (24 lw)	0.253	2.0		0.4	0.0444
00.0 %0 0.00	00.0 %0	00'0		0,0		Propyl Alcohol 585 (24 trg		CHO		0.4	0.0673
5,0	00.0 %0	00.0	L	0.0		Sitca- amorphous S45 (24 tv)	0.0	0.01 +00		0.4	0 0000
0.0% 0.0% 10% 2.01 30.7	10% 2.01	2.01		30.7		Silica- crystalline 545 (24 tv)	3 0.005	0.00+30		0.4	0.0000
10%	10% 26,11	26.11				Tokiene S45 (24 le)	18,75	2.41		0.4	0 1969
0.0% 10% 10% 14.06 277.7	10% 14.06	14.06		277		1,2,4-Trimelly! Benzene 505 (24 br)	Ш	0,77		0.4	10,000
10% 10,04	10% 10,04	10,04	Н	108	-		21.75	4.7		0.4	0.3872
000 540 %016	00:0 5:0	000		0.0	П						
50.0% 011.0% 0% 0.00 0.0	000 %0	000	1	0	T						

Hazardous Air Pollulants (HAPs)	Confrolled Emissions (tons/yr)
ny Benzone	0.1
ylona dilnocyanala	92000 0
	6,0
MEK	0.2
MIDK	0.1
dophthalene	0.01
Tolumba	9.0
Xylame	1,2
Total	2.7

200

1,73

100.001

0.00%

3457

496

0.020

88

£

DT670 Reducer PPG

380

4.58

70.23%

29,77%

13047

129

0.00

1778

00

DP401LF Lpoxy Primer Catalyst PPG

200

4.00

100.001

5,000

10408

100

0.60

1500

2

DYL10 Aquer Thinner PPG

200

7.03

2000

15018

Ë

0.812

2306

100

DTR000 DTR002 Reducers PPG

Criteria Pollutania	Controlled Emissions (Ib/lvr)	Controlled Emissions (tonslyr)
PMy (Note 7)	0.0	0.0
NOC	19.5	0.5

or (mg/m3)	0.1810	-			DODG T	0.0339	D.0400	00000	0,0272		0.0003	0.1134		1 0.09411	0.04711	80100	10000	0.0444	0.0673	00000	
Persistence Factor	0.4	0.4	P.4	0.4	0.4	0.4	0.4	D,4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Impact at 1 lb/hr Emissions (mg/m3)*												0.00000	0.6033								
Controlled Enlesions (lbhr)*	2,22	0.69	0.74	00+300	00+300	0.42	0.50	OLCODO:0	0.33	25.0	1.02	1.39	0.50	1.16	0.50	3.02	6.05	0.54	CHO	0.011+00	The same of
Amblent Conc. (AAC, mg/m3)	689	11	20.5	0.0	0.175	21.75	69	0.0015	a	40	3.6	11.75	180 5	20.5	10.25	26.25	2.5	0,253	25	0.5	the Colon
(24 hr or Annual Averaging)	585 (24 hr)	585 (24 hr)	585 (24 hr)	505 (24 hr)	565 (24 hr)	585 (24 hr)	585 (24 hr)	505 (24 hr)	SHE (24 hr)	505 (24 hr)	505 (24 hr)	505 (24 hr)	585 (24 hr)	505 (24 hr)	595 (24 hr)	585 (24 hr)	505 (24 hr)	505 (24 hr)	585 (24.14)	S45 (24 hr)	The party and
Toxic Air Pollulents - Dry Room Exhaust	Acelone	2-Buloxy I thanns	n-Butyl Acatata	Calcium Carbonale	Carbon Illack	Fllvy Borenno	n-Haptana	Hexminsibylens disocyanale	n-Herans	Isopropy, Alcohol	1-Mothosy 2-Propyl Acadula	Melhyl n-Amyl Ketone	Mothycyclahuxana	MUK	MIDK	Naphiha (Storidard Solvers)	Naphthalana	Parachiorobenzofrillupride"	Propyl Aeofrol	Sitca- amorphore	Attended Acres In Manual

200

3

90,71%

252.0

15916

161

1.145

1667

4

E3X510 Slandard Activalor PPG

200

1,40

30.30%

402.00

1.277

1000

3

ESSS903653 Vinite Acrylic Polyester PPG

200

20.0 12.70

10.07% 45.00%

15074 00.03%

101 2

1.142

1067 0000

200

72863

0.973

99

LSSS9000 Black Anylic Polysster PPG

260

0.30

16.61%

83,39%

3550

191

1,130

304

2

DXR0D Ullra Urelhano Hardener PPG

DP-LF

<u>IDENTITY</u>	CODE
Epoxy Primer	
Gray Green	DP 40 LF
White	DP 48 LF
Gray	DP 50 LF
Blue	DP 60 LF
Red Oxide	DP 74 LF
Black	DP 90 LF
Epoxy Primer Catalyst	DP 401 LF
Fast Epoxy Primer Catalyst	DP 402 LF

BACKGROUND

DP Epoxy Primer LF mixed 2:1 with DP 401 LF or DP 402 LF Catalyst provides an excellent corrosion-resistant Epoxy Primer. The mixed primer is lead and chrome free and has an application VOC of 4.6 #/US gal. This primer provides excellent adhesion to many types of properly prepared steel, galvanized steel, fiberglass, aluminum, and plastic fillers. DP Epoxy Primer LF may also be used as an excellent sealer and topcoated with most PPG Refinish products.

DIRECTIONS FOR USE

Preparation:



Wash the area to be painted with soap and water, then clean with DX 330 ACRYLI-CLEAN® Wax and Grease Remover or DX 380 Low VOC Cleaner.



Sand the bare metal areas completely with 80 - 180 grit abrasive. Sand old finishes with 320 - 400 grit dry by hand or machine or 600 grit wet.



Re-clean with DX 330 or DX 380.

Chemical treatment or the use of conversion coatings will improve the adhesion and performance properties of the finished system.

Prime aluminum and stainless substrate within 72 hours. <u>Prime carbon</u> steel immediately after cleaning.

Mixing:



<u>DP Epoxy Primer LF</u> : <u>DP-LF Catalyst</u> : <u>DT Reducer</u>	VOC #/US gal



2	1			4.6
2	1	1	1/2	5.0
2	1	1	1	5.3

DP-LF Primers may be reduced as sealers with DT Reducers based on current VOC limits. Use the table above to determine the appropriate reduction.

DO NOT BLEND DP 401 LF AND DP 402 LF.



Note: Thoroughly mix both components (5 minute mechanical agitation recommended). Once mixed, allow 30 minutes induction period to obtain maximum performance properties prior to use of DP/DP 401 LF. No induction period is necessary when using DP/DP 402 LF.



Pot life: With DP 401 LF - 72 hours at 70°F (21°C)

With DP 402 LF - 8 hours at 70°F (21°C)

Application and Dry Times:



Air pressure: 50 PSI at the gun for a conventional gun

10 PSI maximum at the cap for HVLP guns



Apply 1 - 2 medium coats to achieve 0.7 - 1.5 mils dry film build. The preferred film build over bare metal is 1.0 mil minimum.



Allow 10 - 15 minutes dry time between coats.



Dry time to topcoat: <u>Catalyst</u>

Primer Ratio (w/o DT Reducer)

Sealer Ratio (w/ DT Reducer)

DP 401 LF

60 minutes

30 minutes

15 minutes



Note: If used over lacquer products, all topcoats must be applied within the same working day or lifting will occur.



IDENTITY	CODE
Acrylic Enamel Color DELTHANE ULTRA Urethane Hardener (For spot repair) Urethane Hardener (For spot repair)	DAR DXR 80 DU 4 DXR 79
Acrylic Enamel Reducers	DTR 600 (50 - 65°F) (10 - 18°C) DTR 601 (60 - 75°F) (16 - 24°C) DTR 602 (70 - 85°F) (21 - 29°C) DTR 604 (85°F & Above) (29°C & Above) DTR 607 Retarder - 25% Blend

BACKGROUND

The DELSTAR/DELTHANE (DAR/DXR 80) Polyurethane Acrylic Enamel system is designed for panel repair and overall refinishing or as a fleet finish. It resists the elements and retains excellent color and gloss. DELSTAR/DELTHANE provides you the same texture, color, and depth of gloss as an original new car finish.

An additional Hardener, DU 4 or DXR 79 Hardener is available and recommended for spot repair. DU 4 Hardener or DXR 79 Hardener helps minimize overspray and gives a faster dry.

DIRECTIONS FOR USE

Preparation:

- Wash affected areas that will be topcoated with soap and water, then reclean with DX 330 ACRYLI-CLEAN® Wax and Grease Remover or DX 380 Low VOC Cleaner.
- Treat all bare metal surfaces with the appropriate PPG metal treatment systems.
- Prime bare metal areas, with DP Epoxy Primers.
- Fill minor imperfections with one of the following recommended Primer Surfacers:

KONDAR® Acrylic Primer Surfacer
DZL Primer Surfacers
K 200/201 Acrylic Urethane Primer Surfacer
K 36 PRIMA™ Acrylic Urethane Primer Surfacer

Final sand the repair with :

Machine/DA 280 grit or finer Hand sand dry 320 grit or finer

Hand sand wet 400 grit or finer

Reclean with #DX 220, DX 330, or DX 380 and tack wipe

Not currently available in Canada.

Note: The use of a primer-sealer will strengthen any paint system. PPG recommends the following Primer Sealers be used over the repair area:

DP Epoxy Primer reduced as a sealer DAS DEL-SEAL® Acrylic Sealers DPE 656, 1202, 1338, Primer Sealers

Mixing:

Reduce DELSTAR (DAR) with the DTR Reducer best suited for shop conditions and add DELTHANE (DXR 80) Hardener using the following ratio:

DAR Color		DTR Redu	DXR 80	
8 parts		6 parts	3	1 part
or	to	or	or	
8 pints	8 pints 6 pints			

Note: Pot life of DAR/DXR 80 is 8 hours at 70°F (21°C).

Cautions:

- DELTHANE ULTRA (DXR 80), DU 4 or DXR 79 Hardener will react with atmospheric moisture. After pouring the quantity needed be sure to immediately wipe off the screw threads and replace the cap of the hardener container to avoid congealing. We recommend using the remainder of the hardener within 7 days after opening for best results.
- Hot spraying is not recommended when hardener is used because the heat stimulates chemical reactions and causes rapid gelling.

Application and Dry Times:

- Set air pressure for 55 60 PSI at the gun when using a siphon feed gun.
- Apply 2 3 full wet coats. Film build per coat is 1.2 mils.
- Allow 15 20 minutes dry time between coats.



DFE-20

Single Stage Polyurethane Enamel

ESSS

ESSS Single Stage Polyurethane Enamel is a two-component product designed to offer good gloss with a wide array of solid and metallic colors. It is available as a 2.8 VOC topcoat and can be used over all properly prepared OEM finishes, cured air-dried finishes, as well as any Delfleet® Essential Primer.

Products	
Essential Color	ESSS
Hardener	ESH200
• Fast Activator	ESX500
 Standard Activator 	ESX510
Slow Activator	ESX520
 Very Slow Activator 	ESX530

Compatible Surfaces

ESSS may be applied over:

- Properly cleaned and sanded OEM enamels and cured finishes
- ESU400
- ESU410
- ESU420/ESU421
- ESU430

When sanding prior to the application of ESSS topcoat, use 220 - 320 grit wet or dry.

	f Substrate Cleaner Product	Purpose
Code DX436	Wax & Grease Remover	Suitable for removing dirt, grease or other contaminants before
DX437	Heavy Duty Wax & Grease Remover	or during the painting process. Used to remove heavy milling oils and grease from bare substrates prior to the painting process.
DX438	Compliant Cleaner	For use removing dirt, grease and other contaminants in VOC regulated areas.



Application Guide

Mixing Ratio:



6 ESSS

- 1 ESH200
- 1 ESX500/510/520/530

Pot Life:



2 hours

at 70°F (21°C) / 50% RH (High heat and humidity will shorten pot life)

Pressure Pot Setup:

HVLP

Conventional 1.0 - 1.4 mm

1.0 - 1.4 mm with 8 - 12 fluid

with 8 - 12 fluid

ounces per minute

ounces per minute

Flash Off:



5 - 10 minutes

(21°C) before stoving

Total Film Build:

Wet

Dry

Minimum

2.0 - 4.0 mils

2.0 - 4.0 mils

per coat

total DFT

Theoretical Coverage:

765 - 860 sq. ft. (Color formula dependent)

Theoretical coverage in sq. ft./U.S. gal.

Ready-to-spray (RTS), giving 1 mil.

(25µm) dry film thickness

(Assuming 100% Transfer Efficiency)

Spray Viscosity:



#2 Zahn Cup 20-30 seconds

Spray Gun Setup:

HVLP

Conventional

Fluid Tip Air Pressure

8 - 10 PSI at

1.3 - 1.7 mm 1.3 - 1.7 mm 50 - 60 PSI

the cap

Number of Coats:



Two coats with 10 minute flash

between coats.

Dry Times:



Dust-free 30 - 60 minutes

Tape Time 2 - 4 hours at 68°F (20°C)

30 minutes at 140°F (60°C)

Overcoat/Recoat72 hours at 70°F (21°C)

Performance Comments:

Wash and Etch primers must be sealed before applying topcoat for optimum performance.

Physical Characteristics:

VOC (Packaged	d): ESSS	2.81 lbs./gal. (Maximum)	•
VOC (RTS)	2.80 lbs./	gal.	
Total Solids By	Weight (RTS)	53.0% - 65.0%	
Total Solids By	Volume (RTS)	47.0% - 53.0%	

Health and Safety:

Please refer to Material Safety Data Sheets (MSDS) for full health safety details and storage regulations.

Emergency Medical or Spill Control Information (412) 434-4515; In Canada (514) 645-1320

Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the general public. Products mentioned may be hazardous and should only be used according to directions, while observing precautions and warning statements listed on label. Statements and methods described are based upon the best information and practices known to PPG Industries. Procedures for applications mentioned are suggestions only and not to be construed as representations or warranties as to performance, results, or fittness for any intended use, nor does PPG Industries warrant freedom from patent infringement in the use of any formula or process set forth herein.

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PPG Canada Inc. 2301 Royal Windsor Drive Mississauga, Ontario L5J IK5



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MIKE KOSS MANAGER, REGULATORY AFFAIRS AUTOMOTIVE, FLEET, & LIGHT INDUSTRIAL FINISHES

October 17, 2006

To: Sarah Stine, P.E. / TORF Environmental Management / 208.571.2393 FAX: 208.345.8285 Subject: C & B Trailers

Dear Sarah,

In regards to your inquiry concerning the concentrations of particular materials contained in one of the coatings products used in spray painting operations, and supplied by PPG Ind., the following comments, observations, calculations, and conclusions can be made:

- 1. The material in question, hexamethylene diisocyanate CAS# 822-06-0, is a very small concentration component of the <u>DELTHANE</u> ® Catalyst, **DXR80**. Our MSD Sheet Reports this material at the weight concentration of 0.1 to <1%. By law, this is the lowest concentration of hazardous materials that we may report. Actually, the resinous material containing this item is only 83.4% by weight of the **DXR80** product. The supplier reports the concentrations of HMDI in the 100% solids resin utilized in the formula as 0.2% maximum. Therefore, the MSDS reported maximum concentration is 5 to 6 times higher than actual.
- 2. **DXR80** is not a singly applied coating product, but one component of a high solids two pack reactive polyurethane topcoat system. Each volume of **DXR80** used is blended with 8 volumes of topcoat color and 3 volumes of reducer prior to spray application to the parts to be painted, further diluting the concentration of all materials contained there-in. Once blended, the acrylic polyol portion begins reacting with the HMDI adduct resins and the very reactive, low concentration HMDI material itself, further reducing the potential available concentration.
- 3. Other factors reducing the emission concentration levels are the actual amount of material applied to and remaining on the part painted, approximately 50% of that atomized during spray application, materials captured and held in resin-bound particulate over-spray, the over-spray it self captured in the booth filtration system (min.95% efficient) and that portion of any remaining reactive material free to react with the ambient moisture in the atmosphere.

Please contact me directly or FAX / e-mail any additional questions or comments regarding this or other products.

Sincerely,

Muhul W Kons



PPG INDUSTRIES

Automotive and Fleet Finishes 3800 West 143 rd Street, Cleveland, OH 44111 216 671-0050 Fax 216 671-7691 E-Mail: mkoss@ppg.com

MIKE KOSS MANAGER, REGULATORY AFFAIRS AUTOMOTIVE, FLEET, & LIGHT INDUSTRIAL FINISHES

November 8, 2006

To: Sarah Stine, P.E. / TORF Environmental Management / 208.571.2393 FAX: 208.345.8285 Subject: C & B Trailers

Dear Sarah,

In regards to your inquiry concerning the concentrations of particular materials contained in one of the coatings products used in spray painting operations, and supplied by PPG Ind., the following comments, observations, calculations, and conclusions can be made:

- 1. The material in question, hexamethylene diisocyanate CAS# 822-06-0, is a very small concentration component of the <u>Delfleet</u> ™ <u>Essential</u> Hardener, **ESH200**. Our MSD Sheet Reports this material at the weight concentration of 0.1 to <1%. By law, this is the lowest concentration of hazardous materials that we may report. Actually, the resinous material containing this item is only 89.0% by weight of the **ESH200** product. The supplier reports the concentrations of HMDI in the 100% solids resin utilized in the formula as 0.2% maximum. Therefore, the MSDS reported maximum concentration is 5 to 6 times higher than actual, which calculates as 0.18% of **ESH200**.
- 2. **ESH200** is not a singly applied coating product, but one component of a high solids two pack reactive polyurethane topcoat system. Each volume of **ESH200** used is blended with 6 volumes of topcoat color and 1 volume of activator prior to spray application to the parts to be painted, further diluting the concentration of all materials contained there-in. Once blended, the acrylic polyol portion begins reacting with the HMDI adduct resins and the very reactive, low concentration HMDI material itself, further reducing the potential available concentration.
- 3. Other factors reducing the emission concentration levels are the actual amount of material applied to and remaining on the part painted, approximately 50% of that atomized during spray application, materials captured and held in resin-bound particulate over-spray, the over-spray it self captured in the booth filtration system (min.95% efficient) and that portion of any remaining reactive material free to react with the ambient moisture in the atmosphere.

Please contact me directly or FAX / e-mail any additional questions or comments regarding this or other products.

Sincerely,

Muhul W Kons

From: Subject: Date: To: "Koss, Mike" <mkoss@ppg.com> RE: Verifying material approval Fri, January 12, 2007 11:33 am "Sarah Stine" <slstine@torf.us>

Sarah, I reviewed my predecessor Ron Hilovsky's statement in section 2. of his letter stating that "Once blended, the acrylic portion begins reacting with the HMDI adduct resin and the very reactive, low concentration HMDI material itself, further reducing the potential available potential concentration by 85 to 90%." To date, I have seen no evidence to dispute Ron's statement and would expect a consistent rate of reaction in the refinish two pack urethane systems that you are evaluating.

-Mike

----Original Message----

From: Sarah Stine [mailto:slstine@torf.us]
Sent: Friday, January 12, 2007 11:02 AM

To: Moll, Jeff R.

Cc: Koss, Mike; Rebecca Gordon

Subject: Re: Verifying material approval

Jeff-

Good to hear about the Essential test. Thanks for sending the equipment info. When I have specific gun model, tip, etc. details for the two booths from Snake River, I can do the final emission estimations. However, at this point the Essential line looks good. We have preliminary approval from IDEQ to use the PCBTF based on the rates looked at so far.

I do need one more thing from PPG. Mike Koss sent me letters regarding the HMDI concentrations in DXR80 and ESH200. I am hoping I can get a more specific extent of reaction between the HMDI and the acrylic polyol. I can't take that credit unless I have an actual number from the manufacturer. See the attached for more details. (I am writing the permit to allow for either topcoat, to maximize flexibility.)

Thank you (and Mike) for your help, Sarah

Sarah Stine, P.E. <u>slstine@torf.us</u> 208.571.2393 FAX: 208.345.8285

TORF Environmental Management www.torf.us

On Mon, January 8, 2007 10:20 pm, Moll, Jeff R. wrote: > Sarah,

- > This past week we successfully demonstrated PPG Delfleet Essential product, utilizing an electrostatic spray system. As you may recall, the
- > Essential is the product which contained the PCTF chemical which the DEQ had taken issue with. However, if I recall correctly we had resolved this
- > issue with the DEQ and the electrostatic spray system was also supported by the DEQ. Am I correct? And, would see any issues form the regulatory
- > side if C&B/Snake River were to move to the Essential product, applied with an electrostatic spray system. We would like to move forward with this new system, but want to make sure there are no issues. I have attached the product data sheet for the Essential and the MSDS, as well

```
> some information on the electrostatic system C&B is evaluating.
> If you have any questions feel free to give me a call on my cell number below.
> Thanks again,
> Jeff Moll
> Cell # 801-554-4943
> Commercial Territory Manager
> PPG Industries, Inc.
> 
> 
> <<ESSS P_Sheet DFE20.pdf>> <<MSDS ESSS9000.pdf>>
> 
> <<Manual_Estat.pdf>>
```

Download this as a file

6. PLOT PLAN - FORM PP DOCUMENTATION

6.1 Facility Boundary

The Kit Avenue facility is surrounded by a chain-link fence, six feet tall and topped with barbed wire. Access is through a sliding gate at the east side of the property.

6.2 Building Dimensions

Building B is the only building with emission sources. Building B has a low pitch, center-peaked roof with a maximum height of 30 feet. Buildings A and C may be considered multi=tier because of small additions of lower height that have been attached to the buildings. The building dimensions (in feet) are provided below:

Building A		
Tier No.1 Height: 20	Tier No.1 Length: 103	Tier No. 1 Width: <u>135</u>
Tier No.2 Height: 15	Tier No.2 Length: 32	Tier No. 2 Width: 34
Tier No.3 Height: 10	Tier No.3 Length: 60	Tier No. 3 Width: 20
Tier No.4 Height: 10	Tier No.4 Length: 24	Tier No. 4 Width: 30
Building B		
Tier No.1 Height: 30	Tier No.1 Length: 190	Tier No. 1 Width: <u>65-90</u>
Building C		
Tier No.1 Height: 30	Tier No.1 Length: 195	Tier No. 1 Width: <u>100</u>
Tier No.2 Height: 10	Tier No.2 Length: 25	Tier No. 2 Width: 23
Building D		
Tier No.1 Height: 20	Tier No.1 Length: 25	Tier No. 1 Width: 40



7. MODELING INFORMATION WORKBOOK - FORM MI1-MI4 DOCUMENTATION

7.1 Model Used

Screening modeling was performed using SCREEN3, the United States Environmental Protection Agency (USEPA)- approved screening model for simple air pollution sources. The SCREEN3 model, applicable and very conservative for this analysis, was the model IDEQ chose to use in analyzing criteria pollutant and TAP impacts from the very similar Chicago Street facility. IDEQ recommended the use of SCREEN3, and provided draft modeling analyses (R. Hardy, November 2006) refined by the applicant.

7.2 Criteria Pollutant Modeling Methodology

A normalized emission rate rate of 1 lb/hr was used for the emission source. Actual predicted impacts for each pollutant are calculated by multiplying the model predicted impact from 1 lb/hr emissions by the estimated actual emission rate, then applying persistence factors recommended in IDEQ's Air Quality Modeling Guidelines. Background concentrations used were provided by IDEQ.¹¹

7.3 TAPs Modeling Methodology

A normalized emission rate of 1 lb/hr is was used for the emission source. Actual predicted impacts for each pollutant are calculated by multiplying the model predicted impact from 1 lb/hr emissions by the estimated actual emission rate, then applying persistence factors recommended in IDEQ's Air Quality Modeling Guidelines. For non-carcinogenic TAPs, a persistence factor of 0.4 is used. For carcinogenic TAPs, a persistence factor of 0.125 is used.

7.4 Meteorological Data, Receptor Network

For the SCREEN3 modeling, flat terrain and rural dispersion coefficients (consistent with most Idaho applications) are assumed. The full meteorological data array is utilized. Receptors are placed from 1 meter to 10,000 meters via the SCREEN3 automated receptor array. SCREEN3 solved for the maximum impact within that receptor range.

7.5 Emissions Release Parameters

While there are six emission points at the Kit Avenue facility, the large majority of pollutants are emitted during coating application from the four stacks located on the two spray booths. Each booth is equipped with two identical stacks, located 14 feet apart, on opposite booth walls. The two sets of stacks are 34 feet apart. Typically the first spray booth will be used for

¹¹ Project Correspondence, Darrin Mehr, IDEQ, to Sarah Stine, TORF Environmental Management, *Re: Modeling Protocol for the Snake River Trailers Facility Located in Caldwell, Idaho*, February 23, 2007.



primer application and the second booth will be used for topcoat application. However, it is possible this could be switched or both booths could be used for a single purpose, depending on production needs. All emission points are at least 150 feet from the nearest fence line (see Plot Plan).

Given the close proximity of the four stacks and their identical configuration, they are effectively collocated as compared to the distance to potential receptors. Therefore, all emissions from the spray booths are considered for the SCREEN3 analysis to come from one stack (BOOTH). This includes the combustion emissions from the two spray booth inlet air heaters.

The emissions from the 180,000 Btu/hr Dry Room heater are released from a 12" vent approximately 20 feet from the Booth 2 exhaust stacks. The duty and, therefore, emissions from the Dry Room heater are less than 5% of the booths' air heaters. Because of the minimal impact of this unit, the Dry Room Heater emissions are included in the BOOTH emissions.

The BOOTH SCREEN3 model source data are as follows: Stack Height = 36 feet (10.97 m)

Temperature = 70° F (293 K)

Exit Velocity = 31.72 ft/s (9.67 m/s)

Stack Diameter = 34" (0.867 m)

While the outlet air temperature can be increased to 140°F for curing operations, during spray operations the air temperature will be 70°F. The lower temperature is conservatively used for the SCREEN3 input. The exit velocity is based on 12,000 CFM blower rate. The stack outlets are equipped with a hinged flap that opens completely when the booth blower is on. Since the blower is always on during spraying and curing operations, the outlet flow can be considered unrestricted.

The sixth emission point at the Kit Avenue facility is the Dry Room exhaust. Any volatiles released during the final curing step will be exhausted from this stack. The stack is 12" in diameter.

The DRYROOM SCREEN3 model source data are as follows:

Stack Height = 36 feet (10.97 m)

Temperature = 120°F (322 K)

Exit Velocity = 25.45 ft/s (7.76 m/s)

Stack Diameter = 12'' (0.305 m)

Depending on the coating, curing temperatures can range from 120-140°F. An outlet temperature of 120°F, the lower end of the curing cycle temperature range, is used for air dispersion modeling. The velocity is based on the exhaust fan rate of 1200 CFM. The fan is rated at 1400 CFM by the Dry Room manufacturer (see Form EUO Documentation).



7.6 Elevation Data

For the SCREEN3 modeling, flat terrain and rural dispersion coefficients (consistent with most Idaho applications) are assumed.

There are three large buildings at the facility (see Plot Plan). The building roofs are either flat or with a very shallow pitch. The spray booths are located in the 30' high center building, Building B. The building to the west (Building C) is 30' tall, and the building to the east (Building A) is 20' tall. See Form PP Documentation for building dimension details.

Two SCREEN3 preliminary analysis runs were made. The first used Building B dimensions to establish the minimum and maximum horizontal building dimensions. The second preliminary SCREEN3 run used the combined footprint of Buildings A, B and C to establish the minimum and maximum horizontal building dimensions. The estimated emission impacts were the same in both cases, with the maximum impact found at 90 meters. The modeling runs output were attached in the previously submitted and IDEQ-reviewed Modeling Protocol¹².

7.7 Impact Analysis

SCREEN3 analyses runs were made for the two point sources: BOOTH and DRYROOM. The output files are attached. At 1 lb/hr of normalized emissions, the respective maximum impacts were 0.0946 and 0.204 mg/m³. These results are adjusted for the actual emissions rates in Table 5-6 for the Booth emissions and in Table 5-7 for the Dry Room emissions.

The impacts from both sources are summarized and compared to the relevant regulatory standards in Table 7-1. The facility-wide criteria impacts, including background concentrations, for NO_x and PM_{10} are well within NAAQS standards. All TAP ambient air concentrations are less than their respective AACs. These TAP results for the volatile components are conservative (maximize impacts) because the 10% of coating volatiles that are assumed to be emitted from the Dry Room are not deducted from the Booth emissions.

7.8 Modeling Protocol Approval Letter Response

A Modeling Protocol for this application was submitted to IDEQ on February 13, 2007. A response to the Modeling Protocol was issued by IDEQ (Darrin Mehr) on February 23, 2007. The comments listed in the February 23rd response have been addressed as detailed below:

Comment 1: Include air dispersion modeling of Dry Room emissions

Modeling Protocol for the Snake River Trailers Facility Located in Caldwell, Idaho, February 23, 2007.



Sarah Stine, TORF Environmental Management, Air Quality PTC Modeling Protocol, February 13, 2007.
 Project Correspondence (letter), Darrin Mehr, Idaho DEQ, to Sarah Stine, TORF Environmental Management, Re:

Based on input from the equipment supplier (see Form EU3 Documentation), maximum estimated Dry Room exhaust emissions were calculated (see Table 5-7). These emissions represent the coating volatiles that may not evaporate in the spray booths.

These volatiles are primarily released during a 15 minute curing cycle, during which the Dry Room is heated to 120-140°F. The Dry Room exhaust is a 12" diameter roof stack. This emission point is shown on the Plot Plan as EP6: DRYROOM. SCREEN3 was used to model the emissions. The lower curing temperature of 120°F was used. The exit velocity was calculated consistent with the actual flow rate of 1200 CFM. The SCREEN3 output report is attached and the results are detailed in Section 7.7.

The Dry Room is heated with a 180,000 Btu/hr, indirect, natural gas-fired heater. The Dry Room Heater combustion gases exhaust through a vertical vent shown as EP5: DRYHTR on the Plot Plan. Because of the relatively small size of this heater (<5% of the other combustion units) and its vertical orientation near the other vertical, Building B paint booth emission sources (EP1-4), the emissions from this unit were included with the Booth emissions.

Comment 2: Show how stack temperatures and flowrates were calculated

The DRYROOM source parameters are listed in Comment 1, above.

Each paint booth is equipped with two exhaust stacks (4 total). Each 34" diameter, vertically-oriented stack is equipped with a 12,000 CFM exhaust fan. When spraying operations are occurring, which represents the period of maximum pollutant emissions, the fans will be operating and the room temperature will be controlled at 70°F, for operator comfort. For the SCREEN3 modeling, the four exhaust stacks were modeled as one 34" vent, with all emissions from both booths exhausting from the representative vent. An exit velocity of 32 feet per second was used (12000 CFM, 34" Diameter opening) at 70°F.

Comment 3: Include worst-case, 24-hour PM₁₀ and TAPs scenarios in emission calculations

This is described in the previous sections detailing the permit limits (Form EU3 documentation) and emission calculations (Form EI documentation).

Snake River will have two spray guns in operation. Typically, one gun (Booth 1) will be used for primer and one gun (Booth 2) will be used for topcoat. However, 24-hour TAP emissions were calculated assuming both guns could be spraying only primer or topcoat mix during a 24-hour period. Where continuous, two-gun, emissions exceed ambient concentration limits, daily permit limits are proposed.



For particulate matter, 24-hour PM₁₀ emissions were calculated assuming the two guns would be spraying the highest solids content coating. As long as booth filters are installed, permit limits are not required to keep PM₁₀ emissions below regulatory levels.

Where combined impacts from both emissions sources were predicted, they were very conservatively calculated as the sum of the maximum impacts at any distance from each modeled emission sources.

Comment 4: Justify ambient air boundary

The Kit Avenue facility is surrounded by a 6 feet tall, chain-link fence topped with barbed wire. Access to the site is through two, sliding gates located at the east end of the property, in front of the office building and reception area. Additionally, the area is in an industrial park setting, with no residential areas within view.

Per the State of Idaho Modeling Guideline, in this situation the facility is assumed to be controlled public access effectively precluded, and the ambient air boundary can be set at the fence line. As shown on the Plot Plan, the fenceline is at least 150 feet (45 meters) from any emission source.

Comment 5: Set ground receptor heights at zero, instead of 1.5 meters

Ground receptor heights are set at zero and the new SCREEN3 outputs are attached.

Comment 6: Use the provided background concentrations

Background concentrations provided by IDEQ are used and the resulting impact analysis is provided in Table A-7.

Comment 7: AERMOD can be used instead of SCREEN3

The conservative results of SCREEN3 demonstrate compliance for this facility. Therefore, AERMOD is not necessary.

Comment 8: Include all modeling files with the final modeling report

The modeling files are attached.

¹⁴ IDEQ, State of Idaho Air Quality Modeling Guideline, December 2002, page 23.



Table 7-1: Ambient Impact Analysis for Criteria and TAP Air Pollutants

Kit Avenue Criteria Pollutants - Facility Total	Averaging Period	NAAQS Standard (ug/m3)	Booth Emissions Maximum Impact (ug/m3)	Dry Room Emissions Maximum Impact (ug/m3)	Combined Ambient Conc. (ug/3)	Background Conc. (ug/m3)	Maximum Ambient Conc. (ug/m3)	Maximum Ambient Conc. (% of NAAQS)
NO _x	Annual	100	4.156		4.156	32	36.2	36.2%
PM ₁₀	24-hr	150	36.34		36.34	81	117.3	78.2%
	Annual	50	1.516		1.516	27	28.5	57.0%

Kit Avenue Toxic Air Pollutants - Facility Total	TAP Type (24 hr or Annual Averaging)	Allowable Ambient Conc. (AAC, mg/m3)	Booth Emissions Maximum Impact (mg/m3) ¹	Dry Room Emissions Maximum Impact (mg/m3) ²	Combined Maximum Ambient Conc. (mg/m3) ³	Combined Maximum Ambient Conc. (% of AAC) ³
Acetone	585 (24 hr)	89	0.839	0.181	1.020	1.15%
Arsenic	586 (Annual)	0.00023	1.38E-08		1.38E-08	0.01%
Barium	585 (24 hr)	0.025	9.73E-07		9.73E-07	0.00%
Benzene	586 (Annual)	0.12	1.45E-07		1.45E-07	0.00%
2-Butoxy Ethanol	585 (24 hr)	6	0.262	0.057	0.319	5.32%
n-Butyl Acetate	585 (24 hr)	35.5	0.280	0.060	0.340	0.96%
Cadmium	586 (Annual)	0.00056	7.60E-08		7.60E-08	0.01%
Calcium Carbonate	585 (24 hr)	0.5	0.0293	0.000	0.0293	5.85%
Carbon Black	585 (24 hr)	0.175	0.00495	0.000	0.0050	2.83%
Chromium	585 (24 hr)	0.025	3.10E-07		3.10E-07	0.00%
Cobalt	585 (24 hr)	0.0025	1.86E-08		1.86E-08	0.00%
Copper	585 (24 hr)	0.05	1.88E-07		1.88E-07	0.00%
Dichlorobenzene	585 (24 hr)	15	2.65E-07		2.65E-07	0.00%
Ethyl Benzene	585 (24 hr)	21.75	0.157	0.034	0.191	0.88%
Formaldehyde	586 (Annual)	0.077	5.18E-06		5.18E-06	0.01%
n-Heptane	585 (24 hr)	82	0.1891	0.041	0.230	0.28%
Hexamethylene diisocyanate	585 (24 hr)	0.0015	0.00013	0.00003	0.00016	10.87%
n-Hexane	585 (24 hr)	9	0.127	0.027	0.154	1.71%
Isopropyl Alcohol	585 (24 hr)	49	0.120	0.026	0.146	0.30%
Manganese	585 (24 hr)	0.025	8.40E-08		8.40E-08	0.00%
Mercury	585 (24 hr)	0.0005	5.75E-08		5.75E-08	0.01%
1-Methoxy 2-Propyl Acetate	585 (24 hr)	3.6	0.386	0.083	0.470	13.0%
Methyl n-Amyl Ketone	585 (24 hr)	11.75	0.526	0.113	0.639	5.44%
Methylcyclohexane	585 (24 hr)	80.5	0.189	0.041	0.230	0.29%
MEK	585 (24 hr)	29.5	0.439	0.095	0.534	1.81%
MIBK	585 (24 hr)	10.25	0.222	0.048	0.269	2.63%
Molybdenum	585 (24 hr)	0.25	2.43E-07		2.43E-07	0.00%
Naphtha (Stoddard Solvent)	585 (24 hr)	26.25	1.483	0.320	1.803	6.87%
Naphthalene	585 (24 hr)	2.5	0.017	0.004	0.021	0.84%
Nickel	586 (Annual)	0.0042	1.45E-07		1.45E-07	0.00%
Parachlorobenzotrifluoride	585 (24 hr)	0.253	0.185	0.044	0.230	90.9%
Pentane	585 (24 hr)	88.5	5.75E-04		0.00057	0.00%
Propyl Alcohol	585 (24 hr)	25	0.312	0.067	0.380	1.52%
Silica- amorphous	585 (24 hr)	0.5	0.00047	0.000	0.00047	0.1%
Silica- crystalline	585 (24 hr)	0.005	0.00081	0.000	0.00081	16.2%
Toluene	585 (24 hr)	18.75	0.913	0.197	1.110	5.92%
1,2,4-Trimethyl Benzene	585 (24 hr)	6.15	0.293	0.063	0.356	5.79%
Vanadium	585 (24 hr)	0.0025	5.08E-07		5.08E-07	0.02%
Xylene	585 (24 hr)	21.75	1.796	0.387	2.183	10.0%
Zinc	585 (24 hr)	0.05	6.41E-06		6.41E-06	0.01%

Note 1: Impact from maximum possible booth emissions which is the same as total facility emissions. Includes emissions from all three natural gas-fired air heaters.

Note 2: Impact from 10% of of total facility coating volatiles exhausting from the Dry Room air vent.

Note 3: For volatiles, actual impact is less because the 10% of volatiles assumed to be emitted from the Dry Room have not been deducted from the Booth emissions.

```
*** SCREEN3 MODEL RUN ***

*** VERSION DATED 96043 ***
```

C&B Paint booths (BOOTH)

```
SIMPLE TERRAIN INPUTS:
   SOURCE TYPE
                                          POINT
   EMISSION RATE (G/S)
                                        .126000
   STACK HEIGHT (M)
                                        10.9700
                               =
   STK INSIDE DIAM (M)
                                          .8635
                               =
   STK EXIT VELOCITY (M/S)=
STK GAS EXIT TEMP (K) =
AMBIENT AIR TEMP (K) =
                                       9.6708
293.0000
                                       293.0000
   RECEPTOR HEIGHT (M)
                                           .0000
                               =
   URBAN/RURAL OPTION
                                          RURAL
                                         9.1400
   BUILDING HEIGHT (M)
   MIN HORIZ BLDG DIM (M) =
                                        18.9000
   MAX HORIZ BLDG DIM (M) =
                                        48.7700
```

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED. THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

BUOY. FLUX = .000 M**4/S**3; MOM. FLUX = 17.434 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN AUTOMATED DISTANCES ***
*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M) 30. 100. 200. 300. 400. 500. 600. 700. 800. 1000. 1100. 1200. 1300. 1400. 1500. 1600. 1700. 1800. 1900. 2000.	CONC (UG/M**3) 	- 6666666666666666666666666666666666666	U10M (M/S) 4.0 4.0 3.5 3.0 3.0 2.5 2.5 2.5 2.0 2.0 2.0 2.0 2.0 1.0 1.0	4.2 3.7 3.2 2.6 2.6 2.6 2.1 2.1 2.1 1.1 1.1	10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0 10000.0	PLUME HT (M) 11.45 11.65 12.05 12.80 12.80 14.28 14.28 14.28 17.18 17.18 17.18 17.18 17.18 17.18 28.58 28.58 28.58	SIGMA Y (M) 1.33 4.07 7.73 11.23 14.64 17.97 21.24 24.46 27.63 30.78 33.88 36.96 40.01 43.04 46.05 49.03 51.99 54.94 57.87 60.78 63.68 66.56	SIGMA Z (M) 7.29 8.25 9.07 10.34 11.12 11.65 12.67 13.65 14.31 14.63 15.48 16.29 17.09 17.86 18.62 19.36 19.36 19.52 20.23 20.23 20.23 20.23	DWASH SS S
		6 6 6 6		1.1 1.1 1.1 1.1	10000.0 10000.0 10000.0 10000.0 10000.0				

```
20070306 CJ SS Model Runs Booth ATT1
                                                                  75.12
                                 1.0
                                         1.1 10000.0
                                                                           23.89
  2400.
           10.38
                          6
                                                         28.58
                                                                                     SS
                                                                  77.95
  2500.
                                                                           24.42
           10.10
                          6
                                 1.0
                                         1.1 10000.0
                                                         28.58
                                                                                     SS
                                                                  80.76
                                                                           24.95
           9.815
                          6
                                 1.0
                                         1.1 10000.0
                                                         28.58
  2600.
                                                                                     SS
                                 1.0
                                         1.1 10000.0
  2700.
                          6
                                                         28.58
                                                                  83.57
                                                                           25.47
           9.541
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  2800.
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                          6
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                                         1.1 10000.0
                                                         28.58
                                                                  86.36
                                                                           25.98
                                                                                     SS
                                                                  89.15
                                                                           26.48
                          6
                                         1.1 10000.0
                                                         28.58
  2900.
           9.018
                                 1.0
                                                                                     SS
  3000.
           8.769
                          6
                                 1.0
                                         1.1 10000.0
                                                         28.58
                                                                  91.92
                                                                           26.98
                                                                                     SS
                          6
                                         1.1 10000.0
                                                         28.58
                                                                 105.65
                                                                           28.98
  3500.
           7.655
                                 1.0
                                                                                     SS
                                             10000.0
  4000.
           6.751
                          6
                                 1.0
                                         1.1
                                                         28.58
                                                                 119.17
                                                                           30.84
                                                                                     SS
           6.010
                                 1.0
                                         1.1 10000.0
                                                         28.58
                                                                 132.50
                                                                           32.57
  4500.
                          6
                                                                                     SS
                          6
                                                                 145.67
           5.396
                                 1.0
                                         1.1 10000.0
                                                         28.58
                                                                           34.21
                                                                                     SS
  5000.
                                         1.1 10000.0
                                                                 158.69
           4.880
                          6
                                 1.0
                                                         28.58
                                                                           35.76
  5500.
                                                                                     SS
  6000.
           4.444
                          6
                                 1.0
                                         1.1 10000.0
                                                         28.58
                                                                 171.58
                                                                           37.23
                                                                                     SS
                                                                 184.34
                          6
                                         1.1 10000.0
                                                         28.58
                                                                           38.64
  6500.
           4.070
                                 1.0
                                                                                     SS
                          6
                                                                 196.99
                                 1.0
                                         1.1 10000.0
                                                         28.58
                                                                           40.00
  7000.
           3.747
                                                                                     SS
                                                                           41.16
  7500.
           3.473
                          6
                                 1.0
                                         1.1 10000.0
                                                         28.58
                                                                 209.54
                                                                                     SS
                                         1.1 10000.0
                                                         28.58
  8000.
           3.232
                          6
                                 1.0
                                                                 221.98
                                                                           42.28
                                                                                     SS
                                         1.1 10000.0
                                                         28.58
                                                                 234.34
                                                                           43.36
  8500.
                          6
                                 1.0
                                                                                     SS
           3.019
                                 1.0
                                                         28.58
  9000.
           2.830
                          6
                                         1.1 10000.0
                                                                 246.61
                                                                           44.40
                                                                                     SS
  9500.
                                                                 258.79
                                         1.1 10000.0
                                                         28.58
                                                                                     SS
           2.661
                          6
                                 1.0
                                                                           45.41
                                                         28.58
 10000.
           2.509
                                 1.0
                                         1.1 10000.0
                                                                 270.90
                                                                           46.38
                                                                                     SS
MAXIMUM 1-HR CONCENTRATION AT OR BEYOND
                                                 30. M:
                                 4.0
                                         4.2 10000.0
                                                                   3.80
                                                                            7.19
    92.
           94.55
                          6
                                                         11.65
                                                                                     SS
```

DWASH= MEANS NO CALC MADE (CONC = 0.0)
DWASH=NO MEANS NO BUILDING DOWNWASH USED
DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

*** REGULATORY (Default) ***
PERFORMING CAVITY CALCULATIONS
WITH ORIGINAL SCREEN CAVITY MODEL

(BRODE, 1988)

```
*** CAVITY CALCULATION - 1 ***
                                          *** CAVITY CALCULATION - 2 ***
CONC (UG/M**3) = CRIT WS @10M (M/S) =
                            20.77
                                           CONC (UG/M**3) = CRIT WS @10M (M/S) =
                                                                        .0000
                                                                       99.99
                             17.81
 CRIT WS @ HS (M/S) =
                                           CRIT WS @ HS (M/S) =
                                                                       99.99
                             18.14
 DILUTION WS (M/S)
                      =
                              9.07
                                           DILUTION WS (M/S)
                                                                       99.99
 CAVITY HT (M)
                             10.13
                                           CAVITY HT (M)
                                                                        9.14
                       =
                                                                       21.80
 CAVITY LENGTH (M)
                                           CAVITY LENGTH (M)
                             36.57
                                                                 =
 ALONGWIND DIM (M)
                             18.90
                                           ALONGWIND DIM (M)
                                                                       48.77
                       =
                                                                 =
```

CAVITY CONC NOT CALCULATED FOR CRIT WS > 20.0 M/S. CONC SET = 0.0

*** SUMMARY OF SCREEN MODEL RESULTS ***
*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	94.55	92.	0.
		Pag	je 2

20070306 CJ SS Model Runs Booth ATT1

BLDG. CAVITY-1 20.77 37. -- (DIST = CAVITY LENGTH)

BLDG. CAVITY-2 .0000 22. -- (DIST = CAVITY LENGTH)

```
*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***
```

C&B TAPS (DRYROOM)

SIMPLE TERRAIN INPUTS: SOURCE TYPE POINT EMISSION RATE (G/S) .126000 STACK HEIGHT (M) 10.9700 = .3048 7.7617 STK INSIDE DIAM (M) STK EXIT VELOCITY (M/S)= STK GAS EXIT TEMP (K) = 322.0500 293.0000 AMBIENT AIR TEMP (K) = RECEPTOR HEIGHT (M) .0000 =URBAN/RURAL OPTION RURAL = 9.1400 BUILDING HEIGHT (M) MIN HORIZ BLDG DIM (M) = 18.9000 MAX HORIZ BLDG DIM (M) = 48.7700

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED. THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

BUOY. FLUX = .159 M**4/S**3; MOM. FLUX = 1.273 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN AUTOMATED DISTANCES ***
*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
(M) 30. 100. 200. 300. 400. 500. 600. 700. 800. 900. 1100. 1200. 1300. 1400. 1500. 1600. 1700. 1800.	(UG/M**3) 190.6 164.4 117.7 85.65 66.01 60.51 56.77 52.56 48.36 44.13 40.63 37.46 34.62 32.06 29.77 27.72 25.87 24.21 22.70	-6644666666666666666	(M/S) 2.5 2.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	(M/S) 2.6 2.1 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	(M) 10000.0 10000.0 320.0				SS
1900. 2000. 2100. 2200.	21.54 20.33 19.23 18.22	6 6 6	$1.0 \\ 1.0 \\ 1.0 \\ 1.0$	1.1 1.1 1.1	10000.0 10000.0 10000.0	16.68 16.68 16.68	63.68 66.56 69.42	22.20 22.77 23.33	SS SS SS
2300.	17.30	6	1.0		10000.0 age 1	16.68	72.28	23.88	SS

```
20070306 CJ SS Model Run Dry Room ATT3
                                      1.1 10000.0
                                                                     24.42
  2400.
          16.46
                              1.0
                                                    16.68
                                                             75.12
                                                                               SS
                                                             77.95
                                                                     24.94
                                      1.1 10000.0
                                                     16.68
                                                                               SS
  2500.
                        6
                              1.0
          15.67
  2600.
                                      1.1 10000.0
                                                     16.68
                                                             80.76
                                                                      25.46
                                                                               SS
          14.95
                        6
                              1.0
                                                                      25.97
                                                             83.57
  2700.
          14.29
                        6
                              1.0
                                      1.1
                                          10000.0
                                                     16.68
                                                                               SS
                                      1.1 10000.0
                                                    16.68
                                                             86.36
                                                                     26.47
                        6
                              1.0
                                                                               SS
  2800.
          13.67
                                                                     26.97
  2900.
          13.09
                        6
                                      1.1 10000.0
                                                    16.68
                                                             89.15
                                                                               SS
                              1.0
                                      1.1 10000.0
          12.66
                        6
                                                    16.68
                                                             91.92
                                                                     27.09
                                                                               SS
  3000.
                              1.0
                                                                     29.08
                        6
                                                            105.65
                                                                               SS
  3500.
          10.52
                              1.0
                                      1.1 10000.0
                                                    16.68
                                                            119.17
                        6
                                                                      30.93
          8.941
                                      1.1 10000.0
                                                    16.68
                                                                               SS
  4000.
                              1.0
                                                            132.50
          7.730
                        6
                              1.0
                                      1.1 10000.0
                                                    16.68
                                                                      32.66
                                                                               SS
  4500.
                                                    16.68
                                                            145.67
          6.779
                        6
                                      1.1 10000.0
                                                                      34.29
                                                                               SS
  5000.
                              1.0
          6.014
  5500.
                        6
                              1.0
                                      1.1
                                          10000.0
                                                    16.68
                                                            158.69
                                                                      35.84
                                                                               SS
                                                            171.58
                                                                      37.31
                                      1.1 10000.0
                                                    16.68
                                                                               SS
                        6
  6000.
          5.388
                              1.0
                                                            184.34
                        6
                                      1.1 10000.0
                                                    16.68
                                                                     38.72
                                                                               SS
          4.867
                              1.0
  6500.
                                      1.1 10000.0
                        6
                                                            196.99
  7000.
          4.434
                              1.0
                                                    16.68
                                                                     40.00
                                                                               SS
                                                            209.54
                                      1.1 10000.0
                                                                     41.16
                                                                               SS
  7500.
          4.071
                              1.0
                                                    16.68
                                                                     42.28
                        6
                              1.0
                                      1.1 10000.0
                                                    16.68
                                                            221.98
                                                                               SS
  8000.
          3.757
          3.484
                                      1.1 10000.0
                                                            234.34
                                                                     43.36
                        6
                              1.0
                                                    16.68
                                                                               SS
  8500.
                        6
                                      1.1
                                          10000.0
                                                     16.68
                                                            246.61
                                                                      44.40
                                                                               SS
  9000.
          3.244
                              1.0
                                                                     45.41
  9500.
                        6
                               1.0
                                      1.1
                                          10000.0
                                                     16.68
                                                            258.79
                                                                               SS
          3.032
                                      1.1 10000.0
                                                                     46.38
                                                     16.68
                                                            270.90
                                                                               SS
 10000.
          2.843
                        6
                              1.0
MAXIMUM 1-HR CONCENTRATION AT OR BEYOND
                                             30. M:
                                     2.6 10000.0
                              2.5
                                                                      6.00
                                                    11.21
                                                              2.18
                                                                               SS
          203.9
                        6
    50.
          MEANS NO CALC MADE (CONC = 0.0)
 DWASH=
 DWASH=NO MEANS NO BUILDING DOWNWASH USED
 DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
 DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
 DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB
*********
     *** REGULATORY (Default) ***
    PERFORMING CAVITY CALCULATIONS
  WITH ORIGINAL SCREEN CAVITY MODEL
(BRODE, 1988)
                                        *** CAVITY CALCULATION - 2 ***
 *** CAVITY CALCULATION - 1 ***
                                         CONC (UG/M**3)
                                                                   .0000
                           .0000
  CONC (UG/M**3)
                                                                  99.99
```

```
CRIT WS @10M (M/S) =
                          99.99
CRIT WS @10M (M/S) =
                                         CRIT WS @ HS (M/S) =
                                                                   99.99
CRIT WS @ HS (M/S) =
                          99.99
                                                                   99.99
                                         DILUTION WS (M/S)
                          99.99
DILUTION WS (M/S)
                    =
CAVITY HT (M)
CAVITY LENGTH (M)
                                         CAVITY HT (M)
                                                                    9.14
                          10.13
                                                              =
                                         CAVITY LENGTH (M)
                                                                   21.80
                                                              =
                     =
                          36.57
                          18.90
                                         ALONGWIND DIM (M)
                                                                    48.77
ALONGWIND DIM (M)
                     =
```

CAVITY CONC NOT CALCULATED FOR CRIT WS > 20.0 M/S. CONC SET = 0.0

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	203.9	50.	0.
		Pag	ge 2

20070306 CJ SS Model Run Dry Room ATT3

8. FEDERAL REGULATION APPLICABILITY – FORM FRA DOCUMENTATION See FORM FRA, attached.



9. CERTIFICATION

I hereby certify that based upon information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

Rebecca Gordon	<u>Secretary-Treasurer</u>	
(printed name)	(title)	
Al Ant	3-22-07	
(signature)	(date)	



Appendix:
Material Data Safety Sheets





SECTION 1 - PRODUCT AND COMPANY INFORMATION

PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

TECHNICAL

1-800-441-9695 (8:00 am to 5:00 pm EST)

INFORMATION:

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

- 4:30 p.m. EST

Product ID:

ASP-435 (0814)

PRODUCT NAME:

3.5 VOC SHOP PRIMER GRAY

SYNONYMS:

None

ISSUE DATE:

04/27/2006

EDITION NO.:

2

CHEMICAL

Alkyd

FAMILY:

EMERGENCY OVERVIEW:

Flammable. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone. CAUSES EYE IRRITATION. MAY CAUSE SLIGHT SKIN IRRITATION. VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED. MAY BE HARMFUL IF SWALLOWED.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Material/	Percent	<u>Hazardous</u>		
CAS Number				
CALCIUM CARBONATE	15 - 40	X		
1317-65-3				
TALC	10 - 30	X		
14807-96-6				
NAPHTHA	10 - 30	X		
8052-41-3				
PETROLEUM DISTILLATES	5 - 10	X		
64741-65-7				
V.M. AND P. NAPHTHA	3 - 7	X		
8032-32-4				
TITANIUM DIOXIDE	1 - 5	X		
13463-67-7				
QUARTZ	0.1-1.0	X		
14808-60-7				
XYLENES	0.1-1.0	X		
1330-20-7				
METHYL ETHYL KETOXIME	0.1-1.0	X		
96-29-7				
CARBON BLACK	0.1-1.0	X		
1333-86-4				
(As Silica, crystalline and Quartz)	*	X	See Sections	8
14808-60-7			and 15 for	
			information.	
[As Rubber solvent (Naphtha)]	*	X	See Sections	8
8032-32-4			and 15 for	
			information.	

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause slight skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

Skin absorption not expected to occur.

INHALATION:

Vapor and/or spray mist may be harmful if inhaled.

INGESTION:

May be harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Prolonged exposure to an ingredient(s) in this product may cause kidney and/or liver damage. This product contains crystalline silica which has been classified as a human carcinogen by IARC. Long-term exposures may also lead to a disabling lung condition known as silicosis. The risk depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Use of appropriate personal protective equipment and/or engineering controls should be employed whenever these types of operations are being performed. This product contains talc. In a lifetime inhalation study female rats exposed to an elevated respirable concentration (9 times the Permissible Exposure Limit) of cosmetic grade talc developed lung cancer. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo and fetus. These effects were often at levels toxic to the mother. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone.

The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available.

EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

Product ID: ASP-435 (0814)

PRODUCT NAME: 3.5 VOC SHOP PRIMER GRAY

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information. INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 73 Degrees F (23 Degrees C)

FLASHPOINT TEST METHOD:

Pensky-Martens Closed Cup UEL: Not Available.

LEL: .9

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IC flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

When this product is used, the overspray and other combustible materials such as paint booth filters, rags, masking materials, etc., contaminated by coating material are subject to spontaneous combustion. Wetting the contaminated materials and not packing them tightly together in refuse containers will minimize the potential for this to occur. Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE: Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IC flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT

EYES:

Wear safety glasses with side shields.

SKIN/GLOVES:

Wear protective clothing. Gloves should be constructed of: neoprene rubber or nitrile rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes.

RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS
If Threshold Limit Values (TLVs) have been established by ACGIH,
OSHA, Ontario or PPG, they will be listed below. These limits are
intended for use in the practice of industrial hygiene as guidelines or
recommendations in the control of potential workplace health hazards.
These limits are not a relative index of toxicity and should not be used by
anyone without industrial hygiene training.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
CALCIUM CARBONATE 1317-65-3	15 - 40	Not established	Not established	R- 5 mg/m ³	Not established
TALC 14807-96-6	10 - 30	R- 2 mg/m ³	Not established	R- 2 mg/m ³	Not established
NAPHTHA 8052-41-3	10 - 30	100 ppm	Not established	100 ppm	Not established
V.M. AND P. NAPHTHA 8032-32-4	3 - 7	300 ppm	Not established	300 ppm	400 ppm
TITANIUM DIOXIDE 13463-67-7	1 - 5	10 mg/m ³	Not established	10 mg/m ³	Not established
QUARTZ 14808-60-7	0.1-1.0	R- 0.05 MG/m ³	Not established	R- 0.1 mg/m ³	Not established
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 ppm	100 ppm	150 ppm
CARBON BLACK 1333-86-4	0.1-1.0	3.5 mg/m ³	Not established	3.5 mg/m ³	Not established

Product ID: ASP-435 (0814) PRODUCT NAME: 3.5 VOC SHOP PRIMER GRAY

- Carbon monoxide - Carbon dioxide - Oxides of phosphorus - Lower molecular weight polymer fractions

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
CALCIUM CARBONATE 1317-65-3	15 - 40	10 MG/m ³	Not established	Not established	Not established
TALC 14807-96-6	10 - 30	R- 2 MG/m ³	Not established	Not established	Not established
NAPHTHA 8052-41-3	10 - 30	525 MG/m ³	Not established	Not established	Not established
V.M. AND P. NAPHTHA 8032-32-4	3 - 7	500 MG/m ³	Not established	Not established	Not established
TITANIUM DIOXIDE 13463-67-7	1 - 5	10 MG/m ³	Not established	Not established	Not established
QUARTZ 14808-60-7	0.1-1.0	0.10 MG/m ³	Not established	Not established	Not established
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 ppm	Not established	Not established
METHYL ETHYL KETOXIME 96-29-7	0.1-1.0	Not established	Not established	3 ppm	10 ppm
CARBON BLACK 1333-86-4	0.1-1.0	3.5 mg/m ³	Not established	Not established	Not established
[As Rubber solvent (Naphtha)] 8032-32-4	ž.	1600 MG/m³	Not established	Not established	Not established

Key: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit; IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Aborption; R-Respirable Dust Additional Information Not applicable.

SECTION 9 - PHYSICAL &	CHEMICAL PROPERTIES	
(FORMULA VALUES, NOT	SALES SPECIFICATIONS)	

SPECIFIC GRAVITY:

1.445

PHYSICAL STATE: Percent Solids:

Liquid 71.30

Percent Volatile by Volume:

53.530

pH:

Not available.

ODOR THRESHOLD:

Not available. 7.2 mmHg

Vapour Pressure: ODOR/APPEARANCE:

Viscous liquid with an odor

characteristic of the solvents listed in

Section 2.

VAPOR DENSITY:

HEAVIER THAN AIR

Evaporation Rate:

42

BOILING POINT OR RANGE: Freezing Point or Range:

230 - 468Degrees F

Melting Point or Range(°C):

Not Applicable. Not Applicable.

Partition coefficient (n-

Not Applicable.

octanol/water):

WEIGHT PER GALLON:

12.04 (U.S.) / 14.4 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:

This product is normally stable and will not undergo hazardous reactions. CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

SECTION 11 - TOXICOLOGICAL INFORMATION **ACUTE TOXICITY**

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
NAPHTHA 8052-41-3	10 - 30	5.00 g/kg	Not Available	5.50 g/L. 4 hr.
TITANIUM DIOXIDE 13463-67-7	1 - 5	10.00 g/kg	Not Available	Not Available
XYLENES 1330-20-7	0.1-1.0	4.30 g/kg	1.70 g/kg	21.88 g/L. 4 hr.
METHYL ETHYL KETOXIME 96-29-7	0.1-1.0	1.69 g/kg	Not Available	Not Available
CARBON BLACK 1333-86-4	0.1-1.0	15.40 g/kg	3.00 g/kg	Not Available

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Blood - Cataract - Spleen - Embryotoxin - Brain - Central nervous system - Ear - Kidney - Liver - Carcinogen - Lung

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

Material/ CAS Number	Percent	Ingredient Specific Animal Data:
TITANIUM DIOXIDE 13463-67-7	1 - 5	This product contains titanium dioxide. Animals inhaling massive quantities of titanium dioxide dust in a long-term study developed lung tumors. Studies with humans involved in manufacture of this pigment indicate no increased risk of cancer from exposure.
METHYL ETHYL KETOXIME 96-29-7	0.1-1.0	This product contains methyl ethyl ketoxime (MEKO). Studies in animals indicate that overexposure can cause adverse effects in spleen and kidney, anemia, liver cancer and cataracts.
CARBON BLACK 1333-86-4	0.1-1.0	This product contains carbon black which has been rated an IARC 2B carcinogen due to animal data.

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility: Biodegradation: No information available. No information available.

Bioaccumulation:

No Information Available.

PHYSICAL/CHEMICAL

Hydrolysis: Photolysis: No information available. No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Product ID: ASP-435 (0814) PRODUCT NAME: 3.5 VOC SHOP PRIMER GRAY

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name: **NOS Technical Name:**

Paint None

Hazard Class:

Subsidiary Class(es):

None

UN Number:

UN1263

Packing Group:

USA - RQ Hazardous Substances: Xylenes

USA-RQ Hazardous Substance

Xylenes>33330 Pounds

Threshold Ship Weight:

Marine Pollutant Name:

None

USA Shipments Only - RQ Threshold Ship Weight: This is the total weight of this product that must be shipped to exceed the RQ quantity.

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

Material/ CAS Number	Percent	CERCLA HS -	SARA EHS- TPQ (LBS)	SARA 313
CALCIUM CARBONATE 1317-65-3	15 - 40	Not Listed	Not Listed	Not Listed
TALC 14807-96-6	10 - 30	Not Listed	Not Listed	Not Listed
NAPHTHA 8052-41-3	10 - 30	Not Listed	Not Listed	Not Listed
PETROLEUM DISTILLATES 64741-65-7	5 - 10	Not Listed	Not Listed	Not Listed
V.M. AND P. NAPHTHA 8032-32-4	3 - 7	Not Listed	Not Listed	Not Listed
TITANIUM DIOXIDE 13463-67-7	1 - 5	Not Listed	Not Listed	Not Listed
QUARTZ 14808-60-7	0.1-1.0	Not Listed	Not Listed	Not Listed
XYLENES 1330-20-7	0.1-1.0	100 lbs	Not Listed	Listed
METHYL ETHYL KETOXIME 96-29-7	0.1-1.0	Not Listed	Not Listed	Not Listed
CARBON BLACK 1333-86-4	0.1-1.0	Not Listed	Not Listed	Not Listed

SARA 311/312

Health (acute):

Yes

Health (chronic): Fire (flammable): Yes Yes

Pressure:

No

Reactivity:

No

WHMIS HAZARD CLASS: - Class B, Division 6 - Class D, Division 2,

Subdivision A

STATE/PROVINCIAL REGULATIONS

CALIFORNIA PROP. 65: WARNING: This product contains a chemical known to the State of California to cause cancer.

Additional Information

Material/ CAS Number	Percent	IARC	IARC	IARC	ACGIH	NTP	OSHA
		Group 1(Kno wn Human Carc.)	Group 2A (Proba ble Carc.)	2B (Suspec ted Carc.)	Carc.	Known Carc.	Carc.
QUARTZ 14808-60-7	0.1-1.0	Y	N	N	Υ	N	Υ
CARBON BLACK 1333-86-4	0.1-1.0	N	N	Y	Ν	N	Υ

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen: + Denotes NTP Possible Carcinogen: Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 130 HMIS Rating: 1*30

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department

REASON FOR REVISION: Section 11 has been updated. Section 2 has been updated. Changes to this section may also result in changes in sections 8, 11 and/or 15. Section 3 has been updated. Section 9 has been updated. Section 14 has been updated. Date. Edition. Updated MSDS

format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200). the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

ASP-435 000008 (00401027.001)(04/26/06) 060426, 000, 0814

*** END OF MSDS ***



SECTION 1 - PRODUCT AND COMPANY INFORMATION

PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

TECHNICAL

1-800-441-9695 (8:00 am to 5:00 pm EST)

INFORMATION:

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

- 4:30 p.m. EST

Product ID:

ASP-901 (0814)

PRODUCT NAME:

2.8 VOC SHOP PRIMER - BLACK

SYNONYMS:

None

ISSUE DATE:

07/27/2006 3

EDITION NO.: CHEMICAL

Alkyd

FAMILY:

EMERGENCY OVERVIEW:

Flammable. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone.CAUSES EYE IRRITATION. MAY CAUSE SLIGHT SKIN IRRITATION. VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED.MAY BE HARMFUL IF SWALLOWED.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Material/	Percent	<u>Hazardous</u>		
CAS Number				
CALCIUM CARBONATE	15 - 40	X		
1317-65-3				
TALC	10 - 30	X		
14807-96-6		9		
NAPHTHA	10 - 30	X		
8052-41-3				
PETROLEUM DISTILLATES	5 - 10	X		
64741-65-7				18
V.M. AND P. NAPHTHA	3 - 7	X		
8032-32-4				
CARBON BLACK	1 - 5	X		
1333-86-4				
QUARTZ	0.1-1.0	X		
14808-60-7				
XYLENES	0.1-1.0	X		
1330-20-7				
METHYL ETHYL KETOXIME	0.1-1.0	X		
96-29-7				
[As Rubber solvent (Naphtha)]	*	X	See Sections 8	3
8032-32-4			and 15 for	
			information.	
(As Silica, crystalline and Quartz)	*	X	See Sections 8	3
14808-60-7			and 15 for	
			information.	

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause slight skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

Skin absorption not expected to occur.

INHALATION:

Vapor and/or spray mist may be harmful if inhaled.

INGESTION:

May be harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Prolonged exposure to an ingredient(s) in this product may cause kidney and/or liver damage. This product contains crystalline silica which has been classified as a human carcinogen by IARC. Long-term exposures may also lead to a disabling lung condition known as silicosis. The risk depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Use of appropriate personal protective equipment and/or engineering controls should be employed whenever these types of operations are being performed. This product contains talc. In a lifetime inhalation study female rats exposed to an elevated respirable concentration (9 times the Permissible Exposure Limit) of cosmetic grade talc developed lung cancer. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo and fetus. These effects were often at levels toxic to the mother. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to

The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

Product ID: ASP-901 (0814) PRODUCT NAME: 2.8 VOC SHOP PRIMER - BLACK

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 73 Degrees F (23 Degrees C)

FLASHPOINT TEST METHOD:

Pensky-Martens Closed Cup

UEL: Not Available.

LEL: .9

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IC flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full

UNUSUAL FIRE AND EXPLOSION HAZARDS:

When this product is used, the overspray and other combustible materials such as paint booth filters, rags, masking materials, etc., contaminated by coating material are subject to spontaneous combustion. Wetting the contaminated materials and not packing them tightly together in refuse containers will minimize the potential for this to occur. Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IC flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION **ENGINEERING CONTROLS:**

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT

EYES:

Wear safety glasses with side shields.

SKIN/GLOVES:

Wear protective clothing. Gloves should be constructed of: neoprene rubber or nitrile rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes.

RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positivepressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS If Threshold Limit Values (TLVs) have been established by ACGIH, OSHA, Ontario or PPG, they will be listed below. These limits are intended for use in the practice of industrial hygiene as guidelines or recommendations in the control of potential workplace health hazards.

These limits are not a relative index of toxicity and should not be used by anyone without industrial hygiene training.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
CALCIUM CARBONATE 1317-65-3	15 - 40	Not established	Not established	R- 5 mg/m ³	Not established
TALC 14807-96-6	10 - 30	R- 2 MG/m ³	Not established	R- 2 mg/m ³	Not established
NAPHTHA 8052-41-3	10 - 30	100 ppm	Not established	100 ppm	Not established
V.M. AND P. NAPHTHA 8032-32-4	3 - 7	300 ppm	Not established	300 ppm	400 ppm
CARBON BLACK 1333-86-4	1 - 5	3.5 mg/m ³	Not established	3.5 mg/m ³	Not established
QUARTZ 14808-60-7	0.1-1.0	R- 0.025 MG/m ³	Not established	R- 0.1 mg/m ³	Not established
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 PPM.	100 ppm	150 ppm

Product ID: ASP-901 (0814) PRODUCT NAME: 2.8 VOC SHOP PRIMER - BLACK

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
CALCIUM CARBONATE 1317-65-3	15 - 40	10 MG/m ³	Not established	Not established	Not established
TALC 14807-96-6	10 - 30	R- 2 MG/m ³	Not established	Not established	Not established
NAPHTHA 8052-41-3	10 - 30	525 MG/m ³	Not established	Not established	Not established
V.M. AND P. NAPHTHA 8032-32-4	3 - 7	500 MG/m ³	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Not established	Not established
CARBON BLACK 1333-86-4	1 - 5	3.5 mg/m ³	 Not established 	Not established	Not established
QUARTZ 14808-60-7	0.1-1.0	0.10 MG/m ³	Not established	Not established	Not established
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 ppm	Not established	Not established
METHYL ETHYL KETOXIME 96-29-7	0.1-1.0	Not established	Not established	3 ppm	10 ppm
[As Rubber solvent (Naphtha)] 8032-32-4	*	1600 MG/m³	Not established	Not established	Not established

Key: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit: IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Aborption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES (FORMULA VALUES, NOT SALES SPECIFICATIONS)

SPECIFIC GRAVITY:

1.393 Liquid

PHYSICAL STATE: Percent Solids:

70.12 53.730

Percent Volatile by Volume:

Not available.

ODOR THRESHOLD: Vapour Pressure:

Not available.

7.0 mmHg

ODOR/APPEARANCE:

Viscous liquid with an odor

characteristic of the solvents listed in

Section 2.

VAPOR DENSITY: **Evaporation Rate:**

HEAVIER THAN AIR 43

BOILING POINT OR RANGE:

230 - 468Degrees F

Freezing Point or Range:

Not Applicable.

Melting Point or Range(°C):

Not Applicable.

Partition coefficient (n-

Not Applicable.

octanol/water):

WEIGHT PER GALLON:

11.61 (U.S.) / 13.9 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:

This product is normally stable and will not undergo hazardous reactions. CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide - Carbon dioxide - Oxides of phosphorus - Lower molecular weight polymer fractions

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
NAPHTHA 8052-41-3	10 - 30	5.00 g/kg	Not Available	5.50 g/L. 4 hr.
CARBON BLACK 1333-86-4	1 - 5	15.40 g/kg	3.00 g/kg	Not Available
XYLENES 1330-20-7	0.1-1.0	4.30 g/kg	1.70 g/kg	21.88 g/L. 4 hr.
METHYL ETHYL KETOXIME 96-29-7	0.1-1.0	1.69 g/kg	Not Available	Not Available

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Blood - Cataract - Spleen - Embryotoxin - Brain - Central nervous

system - Ear - Kidney - Liver - Carcinogen - Lung

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

Material/ CAS Number	Percent	Ingredient Specific Animal Data:
CARBON BLACK 1333-86-4	1 - 5	This product contains carbon black which has been rated an IARC 2B carcinogen due to animal data.
METHYL ETHYL KETOXIME 96-29-7	0.1-1.0	This product contains methyl ethyl ketoxime (MEKO). Studies in animals indicate that overexposure can cause adverse effects in spleen and kidney, anemia, liver cancer and cataracts.

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility:

No information available.

Biodegradation:

No information available.

Bioaccumulation:

No Information Available.

PHYSICAL/CHEMICAL

Hydrolysis: Photolysis:

No information available. No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

Product ID: ASP-901 (0814) PRODUCT NAME: 2.8 VOC SHOP PRIMER - BLACK

SECTION 14 - TRANSPORTATION INFORMATION	1
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Proper Shipping Name:

Paint

NOS Technical Name: Hazard Class:

None

Subsidiary Class(es):

3 None

UN Number: Packing Group: UN1263 III

USA - RQ Hazardous Substances: Xylenes

USA-RQ Hazardous Substance

Xylenes>32254.84 Pounds

Threshold Ship Weight:

None

Marine Pollutant Name:

USA Shipments Only - RQ Threshold Ship Weight: This is the total

weight of this product that must be shipped to exceed the RQ quantity.

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

Material/ CAS Number	Percent	CERCLA HS -	SARA EHS-	SARA 313
OAO ITAIIIDEI		RQ (LBS)	TPQ (LBS)	-
CALCIUM CARBONATE 1317-65-3	15 - 40	Not Listed	Not Listed	Not Listed
TALC 14807-96-6	10 - 30	Not Listed	Not Listed	Not Listed
NAPHTHA 8052-41-3	10 - 30	Not Listed	Not Listed	Not Listed
PETROLEUM DISTILLATES 64741-65-7	5 - 10	Not Listed	Not Listed	Not Listed
V.M. AND P. NAPHTHA 8032-32-4	3 - 7	Not Listed	Not Listed	Not Listed
CARBON BLACK 1333-86-4	1 - 5	Not Listed	Not Listed	Not Listed
QUARTZ 14808-60-7	0.1-1.0	Not Listed	Not Listed	Not Listed
XYLENES 1330-20-7	0.1-1.0	100 lbs	Not Listed	Listed
METHYL ETHYL KETOXIME 96-29-7	0.1-1.0	Not Listed	Not Listed	Not Listed

SARA 311/312

Health (acute):

Yes

Health (chronic):

Yes Yes

Fire (flammable): Pressure: Reactivity:

No No

WHMIS HAZARD CLASS: - Class B, Division 6 - Class D, Division 2,

Subdivision A

STATE/PROVINCIAL REGULATIONS

<u>CALIFORNIA PROP. 65: WARNING</u>: This product contains a chemical known to the State of California to cause cancer.

Additional Information

Material/ CAS Number	Percent	IARC Group 1(Kno wn Human Carc.)	IARC Group 2A (Proba ble Carc.)	IARC 2B (Suspec ted Carc.)	ACGIH Carc.	NTP Known Carc.	OSHA Carc.
CARBON BLACK 1333-86-4	1 - 5	N	N	Y	N	N	Υ
QUARTZ 14808-60-7	0.1-1.0	Y	N	N	Υ	N	Υ

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; OSHA-Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 1 30 HMIS Rating: 1*30

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department

REASON FOR REVISION: Section 11 has been updated. Section 2 has been updated. Changes to this section may also result in changes in sections 8, 11 and/or 15. Section 3 has been updated. Date. Edition. Updated MSDS format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

UC87064 000003 (00417549.001)(07/26/06) 060726, 000, 0814



SECTION 1 - PRODUCT AND COMPANY INFORMATION

Refinish Products 19699 Progress Drive Strongsville, OH 44149

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

TECHNICAL (740) 363-9610 (DELAWARE, OH) 8:00 a.m. -

INFORMATION: 5:00 p.m. EST

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

- 4:30 p.m. EST

Product ID: DAR8000 (0808)

PRODUCT NAME: SYNONYMS:

WHITE `

ISSUE DATE: EDITION NO.: None 04/14/2006

EDITION NO.: CHEMICAL

Alkyd

FAMILY:

EMERGENCY OVERVIEW:

Flammable. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone. CAUSES EYE IRRITATION. MAY CAUSE SLIGHT SKIN IRRITATION. VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED. VAPOR IRRITATES EYES, NOSE, AND THROAT. HARMFUL IF SWALLOWED.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Material/_	Percent	Hazardous
CAS Number		
XYLENES	15 - 40	X
1330-20-7		
TITANIUM DIOXIDE	10 - 30	X
13463-67-7		
ETHYL BENZENE	3 - 7	X
100-41-4		

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause slight skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

Skin absorption not expected to occur.

INHALATION:

Vapor and/or spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat.

INGESTION:

Harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo and fetus. These effects were often at levels toxic to the mother.

The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available.

EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 81 Degrees F (27 Degrees C)

FLASHPOINT TEST METHOD:

Pensky-Martens Closed Cup

UEL: Not Available.

LEL: 1.1

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IC flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Product ID: DAR8000 (0808) PRODUCT NAME: WHITE

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

When this product is used, the overspray and other combustible materials such as paint booth filters, rags, masking materials, etc., contaminated by coating material are subject to spontaneous combustion. Wetting the contaminated materials and not packing them tightly together in refuse containers will minimize the potential for this to occur. Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE: Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IC flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT EYES:

Wear chemical-type splash goggles when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors. **SKIN/GLOVES**:

Wear protective clothing. Gloves should be constructed of: nitrile rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes.

RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS

If Threshold Limit Values (TLVs) have been established by ACGIH, OSHA, Ontario or PPG, they will be listed below. These limits are intended for use in the practice of industrial hygiene as guidelines or recommendations in the control of potential workplace health hazards. These limits are not a relative index of toxicity and should not be used by anyone without industrial hygiene training.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
XYLENES 1330-20-7	15 - 40	100 ppm	150 ppm	100 ppm	150 ppm
TITANIUM DIOXIDE 13463-67-7	10 - 30	10 mg/m ³	Not established	10 mg/m ³	Not established
ETHYL BENZENE 100-41-4	3 - 7	100 ppm	125 ppm	100 ppm	125 ppm

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
XYLENES 1330-20-7	15 - 40	100 ppm	150 ppm	Not established	Not established
TITANIUM DIOXIDE 13463-67-7	10 - 30	10 MG/m ³	Not established	Not established	Not established
ETHYL BENZENE 100-41-4	3 - 7	100 PPM	125 PPM	Not established	Not established

Key: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit; IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Aborption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

SPECIFIC GRAVITY: 1.116
PHYSICAL STATE: Liquid
Percent Solids: 55.67
Percent Volatile by Volume: 57,080

pH: Not available.
ODOR THRESHOLD: Not available.
Vapour Pressure: 4.9 mmHg

ODOR/APPEARANCE: Viscous liquid with an odor

characteristic of the solvents listed in

Section 2.
VAPOR DENSITY: HEAVIER THAN AIR

Evaporation Rate: 63

BOILING POINT OR RANGE: 172 - 399Degrees F Freezing Point or Range: Not Applicable. Melting Point or Range(°C): Not Applicable.

Melting Point or Range(°C): Not Applicable.
Partition coefficient (noottanol/water): Not Applicable.

WEIGHT PER GALLON: 9.30 (U.S.) / 11.1 (IMPERIAL)

Product ID: DAR8000 (0808) PRODUCT NAME: WHITE

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:

This product is normally stable and will not undergo hazardous reactions. CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide - Carbon dioxide - Lower molecular weight polymer fractions

SECTION 11 - TOXICOLOGICAL INFORMATION **ACUTE TOXICITY**

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
XYLENES 1330-20-7	15 - 40	4.30 g/kg	1.70 g/kg	21.88 g/L. 4 hr.
TITANIUM DIOXIDE 13463-67-7	10 - 30	10.00 g/kg	Not Available	Not Available
ETHYL BENZENE 100-41-4	3 - 7	3.50 g/kg	17.80 g/kg	Not Available

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Carcinogen - Kidney - Liver - Embryotoxin - Brain - Central nervous system - Lung

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

Material/ CAS Number	Percent	Ingredient Specific Animal Data:
TITANIUM DIOXIDE 13463-67-7	10 - 30	This product contains titanium dioxide. Animals inhaling massive quantities of titanium dioxide dust in a long-term study developed lung tumors. Studies with humans involved in manufacture of this pigment indicate no increased risk of cancer from exposure.
ETHYL BENZENE 100-41-4	3 - 7	Ethylbenzene has been reported by NTP to cause cancer in laboratory animals following a chronic (2 year) inhalation exposure. Dose levels of 75, 250 and 750 ppm were used, with evidence of carcinogenicity found in the kidneys of rats and the lung and liver of mice at 750 ppm. The No Observed Effect Level (NOEL) was 75 ppm. The relevance of these findings to humans is uncertain, but appropriate safeguards should be employed to reduce or eliminate inhalation exposure to ethylbenzene.

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility: Biodegradation: Bioaccumulation: No information available. No information available. No Information Available.

PHYSICAL/CHEMICAL

Hydrolysis: Photolysis:

No information available. No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name:

Paint

NOS Technical Name: Hazard Class:

None

Subsidiary Class(es):

None UN1263

UN Number: Packing Group:

USA - RQ Hazardous Substances: Xylenes, Ethyl Benzene USA-RQ Hazardous Substance

Xylenes>267 Pounds, Ethyl

Threshold Ship Weight:

Benzene>15128.74 Pounds

Marine Pollutant Name:

None

USA Shipments Only - RQ Threshold Ship Weight: This is the total weight of this product that must be shipped to exceed the RQ quantity.

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

Material/ CAS Number	Percent	CERCLA HS - RQ (LBS)	SARA EHS- TPQ (LBS)	SARA 313
XYLENES 1330-20-7	15 - 40	100 lbs	Not Listed	Listed
TITANIUM DIOXIDE 13463-67-7	10 - 30	Not Listed	Not Listed	Not Listed
ETHYL BENZENE 100-41-4	3 - 7	1000 lbs	Not Listed	Listed

SARA 311/312

Health (acute): Yes Health (chronic): Yes Fire (flammable): Yes Pressure: No Reactivity: No

WHMIS HAZARD CLASS: - Class B, Division 6 - Class D, Division 2, Subdivision A

STATE/PROVINCIAL REGULATIONS

CALIFORNIA PROP. 65: WARNING: This product contains a chemical known to the State of California to cause cancer.

Additional Information

Product ID: DAR8000 (0808) PRODUCT NAME: WHITE

Material/ CAS Number	Percent	IARC Group 1(Kno wn Human Carc.)	IARC Group 2A (Proba ble Carc.)	IARC 2B (Suspec ted Carc.)	ACGIH Carc.	NTP Known Carc.	OSHA Carc.
ETHYL BENZENE 100-41-4	3 - 7	N	N	Y	N	N	Υ

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; OSHA-Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 2 30 HMIS Rating: 2*30

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department REASON FOR REVISION: Date. Edition. Updated MSDS format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

DAR8000 000043 (00392178.001)(03/17/06) 060317, 000, 0808



SECTION 1 - PRODUCT AND COMPANY INFORMATION

Refinish Products 19699 Progress Drive Strongsville, OH 44149

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

TECHNICAL

(740) 363-9610 (DELAWARE, OH) 8:00 a.m. -

INFORMATION:

5:00 p.m. EST

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

4:30 p.m. EST

Product ID: PRODUCT NAME: DAR9000 (0808) **DELSTAR BLACK**

SYNONYMS:

None

ISSUE DATE:

04/14/2006

EDITION NO.: CHEMICAL

Alkyd

FAMILY:

EMERGENCY OVERVIEW:

Flammable. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone.CAUSES SEVERE EYE IRRITATION. MAY CAUSE MODERATE SKIN IRRITATION. VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED. VAPOR IRRITATES EYES, NOSE, AND THROAT.HARMFUL IF SWALLOWED.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Material/	Percent	<u>Hazardous</u>
CAS Number		
XYLENES	40 - 70	X
1330-20-7		
ETHYL BENZENE	3 - 7	X
100-41-4		
METHYL ETHYL KETONE	· 3 - 7	X
78-93-3		
CARBON BLACK	1 - 5	X
1333-86-4		

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes severe eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause moderate skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

Skin absorption not expected to occur.

INHALATION:

Vapor and/or spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat.

INGESTION:

Harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo and fetus. These effects were often at levels toxic to the mother.

The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available.

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 81 Degrees F (27 Degrees C)

FLASHPOINT TEST METHOD:

Pensky-Martens Closed Cup

UEL: Not Available.

LEL: 1.3
AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IC flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Product ID: DAR9000 (0808) PRODUCT NAME: DELSTAR BLACK

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

When this product is used, the overspray and other combustible materials such as paint booth filters, rags, masking materials, etc., contaminated by coating material are subject to spontaneous combustion. Wetting the contaminated materials and not packing them tightly together in refuse containers will minimize the potential for this to occur. Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE: Vapors may collect in low areas. If this material is part of a multiple

component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IC flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION **ENGINEERING CONTROLS:**

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT FYFS:

absorbant should be placed in this container.

Wear chemical-type splash goggles when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: nitrile rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes.

RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positivepressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS

If Threshold Limit Values (TLVs) have been established by ACGIH, OSHA, Ontario or PPG, they will be listed below. These limits are intended for use in the practice of industrial hygiene as guidelines or recommendations in the control of potential workplace health hazards. These limits are not a relative index of toxicity and should not be used by anyone without industrial hygiene training.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
XYLENES 1330-20-7	40 - 70	100 ppm	150 PPM	100 ppm	150 ppm
ETHYL BENZENE 100-41-4	3 - 7	100 ppm	125 ppm	100 ppm	125 ppm
METHYL ETHYL KETONE 78-93-3	3 - 7	200 ppm	300 ppm	200 ppm	300 ppm
CARBON BLACK 1333-86-4	1 - 5	3.5 mg/m ³	Not established	3.5 mg/m ³	Not established

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
XYLENES 1330-20-7	40 - 70	100 ppm	150 ppm	Not established	Not established
ETHYL BENZENE 100-41-4	3 - 7	100 PPM	125 PPM	Not established	Not established
METHYL ETHYL KETONE 78-93-3	3 - 7	200 ppm	300 ppm	Not established	250 PPM
CARBON BLACK 1333-86-4	1 - 5	3.5 mg/m ³	Not established	Not established	Not established

Key: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit; IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Aborption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

SPECIFIC GRAVITY:

948

PHYSICAL STATE:

Liquid 44.79

Percent Solids:

60.670

Percent Volatile by Volume: pH:

Not available.

ODOR THRESHOLD:

Not available.

Vapour Pressure:

10.5 mmHg

ODOR/APPEARANCE:

Viscous liquid with an odor

characteristic of the solvents listed in Section 2.

VAPOR DENSITY:

HEAVIER THAN AIR

Evaporation Rate:

103

BOILING POINT OR RANGE:

172 - 381Degrees F

Refinish Products 19699 Progress Drive Strongsville, OH 44149

Product ID: DAR9000 (0808) PRODUCT NAME: DELSTAR BLACK

Freezing Point or Range:

Not Applicable.

Melting Point or Range(°C): Partition coefficient (nNot Applicable. Not Applicable.

octanol/water):

WEIGHT PER GALLON:

7.90 (U.S.) / 9.4 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:

This product is normally stable and will not undergo hazardous reactions. CONDITIONS TO AVOID:

None Known

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide - Carbon dioxide - Lower molecular weight polymer fractions

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
XYLENES 1330-20-7	40 - 70	4.30 g/kg	1.70 g/kg	21.88 g/L. 4 hr.
ETHYL BENZENE 100-41-4	3 - 7	3.50 g/kg	17.80 g/kg	Not Available
METHYL ETHYL KETONE 78-93-3	3 - 7	2.74 g/kg	13.00 g/kg	Not Available
CARBON BLACK 1333-86-4	1 - 5	15.40 g/kg	3.00 g/kg	Not Available

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Carcinogen - Kidney - Liver - Embryotoxin - Teratogen - Brain - Central nervous system - Lung

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

Material/ CAS Number	Percent	Ingredient Specific Animal Data:
ETHYL BENZENE 100-41-4	3 - 7	Ethylbenzene has been reported by NTP to cause cancer in laboratory animals following a chronic (2 year) inhalation exposure. Dose levels of 75, 250 and 750 ppm were used, with evidence of carcinogenicity found in the kidneys of rats and the lung and liver of mice at 750 ppm. The No Observed Effect Level (NOEL) was 75 ppm. The relevance of these findings to humans is uncertain, but appropriate safeguards should be employed to reduce or eliminate inhalation exposure to ethylbenzene.
METHYL ETHYL KETONE 78-93-3	3 - 7	This product contains methyl ethyl ketone (MEK). MEK has been shown to cause minor embryotoxic/fetotoxic effects in laboratory animals exposed for prolonged periods at high concentrations via inhalation. The potential for human exposure to high concentrations is expected to be low due to the irritating effects of MEK at low concentrations.
CARBON BLACK 1333-86-4	1 - 5	This product contains carbon black which has been rated an IARC 2B carcinogen due to animal data.

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility:

No information available. No information available.

Biodegradation: Bioaccumulation:

No Information Available.

PHYSICAL/CHEMICAL

Hydrolysis: Photolysis: No information available. No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name:

Paint

NOS Technical Name:

None

Hazard Class:

None

Subsidiary Class(es):

UN1263

UN Number: Packing Group:

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USA - RQ Hazardous Substances: Xylenes, Ethyl Benzene **USA-RQ Hazardous Substance**

Xylenes>223.39 Pounds, Ethyl

Threshold Ship Weight:

Benzene>19493.37 Pounds

Marine Pollutant Name:

None

USA Shipments Only - RQ Threshold Ship Weight: This is the total weight of this product that must be shipped to exceed the RQ quantity.

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

Refinish Products 19699 Progress Drive Strongsville, OH 44149

Product ID: DAR9000 (0808) PRODUCT NAME: DELSTAR BLACK

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

Material/ CAS Number	Percent	CERCLA HS -	SARA EHS- TPQ (LBS)	SARA 313
XYLENES 1330-20-7	40 - 70	100 lbs	Not Listed	Listed
ETHYL BENZENE 100-41-4	3 - 7	1000 lbs	Not Listed	Listed
METHYL ETHYL KETONE 78-93-3	3 - 7	5000 lbs	Not Listed	Not Listed
CARBON BLACK 1333-86-4	1 - 5	Not Listed	Not Listed	Not Listed

SARA 311/312

Health (acute):

Health (chronic):

Fire (flammable):

Pressure:

Reactivity: No

WHMIS HAZARD CLASS: - Class B, Division 6 - Class D, Division 2,

Subdivision A - Class D, Division 2, Subdivision B

Yes

Yes

Yes

No

STATE/PROVINCIAL REGULATIONS

CALIFORNIA PROP. 65: WARNING: This product contains a chemical known to the State of California to cause cancer.

Additional Information

Material/	Percent						
CAS Number		IARC Group 1(Kno wn Human Carc.)	IARC Group 2A (Proba ble Carc.)	IARC 2B (Suspec ted Carc.)	ACGIH Carc.	NTP Known Carc.	OSHA Carc.
ETHYL BENZENE 100-41-4	3 - 7	N	N	Y	N	N	Υ
CARBON BLACK 1333-86-4	1 - 5	N	N	Y	N	N	Υ

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 2 30

HMIS Rating: 2*30

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department REASON FOR REVISION: Date. Edition.

Updated MSDS format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200). the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG

representative.

DAR9000 000057 (00330943.001)(02/23/05) 050223, 000, 0808

MATERIAL SAFETY DATA SHEET



SECTION 1 - PRODUCT AND COMPANY INFORMATION

Refinish Products 19699 Progress Drive Strongsville, OH 44149

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

TECHNICAL

(440) 572-2800

INFORMATION:

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

- 4:30 p.m. EST

Product ID:

DP50LF (0808)

PRODUCT NAME:

EPOXY PRIMÉR GRAY

SYNONYMS:

None

ISSUE DATE:

04/14/2006

EDITION NO.: CHEMICAL

5 Epoxy

FAMILY:

EMERGENCY OVERVIEW:

Flammable. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone.CAUSES SEVERE EYE IRRITATION. MAY CAUSE MODERATE SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE AN ALLERGIC SKIN REACTION.VAPOR AND/OR SPRAY MIST HARMFUL IF INHALED. VAPOR IRRITATES EYES, NOSE, AND THROAT.HARMFUL OR FATAL IF SWALLOWED.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Percent	Hazardous	
10 - 30	X	
10 - 30	X	
7 - 13	X	
5 - 10	X	
5 - 10	X	
3 - 7	X	
1 - 5	X	
1 - 5	X	
1 - 5	X	
1 - 5	X	
1 - 5	X	
1 - 5	X	
1 - 5	X	
0.5-1.5	X	
0.1 - 1.0	X	
0.1-1.0	X	
0.1-1.0	X	
*	X	See Sections 8
		and 15 for
		information.
	10 - 30 10 - 30 7 - 13 5 - 10 5 - 10 3 - 7 1 - 5 1 - 5 1 - 5 1 - 5 1 - 5 1 - 5 0.5-1.5	10 - 30

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes severe eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause moderate skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

May be harmful if absorbed through the skin. Prolonged or repeated contact may cause an allergic skin reaction.

INHALATION:

Vapor and/or spray mist harmful if inhaled. Vapor irritates eyes, nose, and throat.

INGESTION:

Harmful or fatal if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Product ID: DP50LF (0808)
PRODUCT NAME: EPOXY PRIMER GRAY

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. This product contains crystalline silica which has been classified as a human carcinogen by IARC. Long-term exposures may also lead to a disabling lung condition known as silicosis. The risk depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Use of appropriate personal protective equipment and/or engineering controls should be employed whenever these types of operations are being performed. This product contains toluene. Toluene inhalation in animals (greater than 1500 ppm) and intentional inhalation of toluene-containing products by humans (e.g. glue) has caused adverse fetal development effects. This product contains talc. In a lifetime inhalation study female rats exposed to an elevated respirable concentration (9 times the Permissible Exposure Limit) of cosmetic grade talc developed lung cancer. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo and fetus. These effects were often at levels toxic to the mother. The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available.

EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 80 Degrees F (27 Degrees C)

FLASHPOINT TEST METHOD:

Pensky-Martens Closed Cup

UEL: Not Available. LEL: 1.2

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IC flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Provide maximum ventilation. Only personnel equipped with proper

respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches. STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IC flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT EYES:

Wear chemical-type splash goggles when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors. SKIN/GLOVES:

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: nitrile rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes. RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

Product ID: DP50LF (0808) **PRODUCT NAME: EPOXY PRIMER GRAY**

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS If Threshold Limit Values (TLVs) have been established by ACGIH, OSHA, Ontario or PPG, they will be listed below. These limits are intended for use in the practice of industrial hygiene as guidelines or recommendations in the control of potential workplace health hazards. These limits are not a relative index of toxicity and should not be used by anyone without industrial hygiene training.

Material/	Percent	ACGIH TLV		OSHA PEL	OSHA
CAS Number			STEL		STEL
BARIUM SULFATE 7727-43-7	10 - 30	10 mg/m ³	Not established	R- 5 mg/m ³	Not established
METHYL (N-AMYL) KETONE 110-43-0	7 - 13	50 ppm	Not established	100 ppm	Not established
CALCIUM CARBONATE 1317-65-3	5 - 10	Not established	Not established	R- 5 mg/m ³	Not established
TITANIUM DIOXIDE 13463-67-7	5 - 10	10 mg/m ³	Not established	10 mg/m ³	Not established
TOLUENE 108-88-3	3 - 7	S- 50 ppm	Not established	100 ppm	150 ppm
2-BUTOXY ETHANOL 111-76-2	1 - 5	20 PPM	Not established	S- 25 ppm	Not established
METHYL ISOBUTYL KETONE 108-10-1	1 - 5	50 ppm	75 ppm	50 ppm	75 ppm
XYLENES 1330-20-7	1 - 5	100 ppm	150 ppm	100 ppm	150 ppm
TALC 14807-96-6	1 - 5	R- 2 mg/m ³	Not established	R- 2 mg/m ³	Not established
AMORPHOUS SILICA 112926-00-8	0.5-1.5	10 mg/m ³	Not established	6 mg/m ³	Not established
ETHYL BENZENE 100-41-4	0.1-1.0	100 ppm	125 ppm	100 ppm	125 ppm
CARBON BLACK 1333-86-4	0.1-1.0	3.5 mg/m ³	Not established	3.5 mg/m ³	Not established
QUARTZ 14808-60-7	0.1-1.0	R- 0.05 MG/m ³	Not established	R- 0.1 mg/m ³	Not established

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
BARIUM SULFATE 7727-43-7	10 - 30	10 MG/m ³	Not established	Not established	Not established
METHYL (N-AMYL) KETONE 110-43-0	7 - 13	25 ppm	Not established	Not established	Not established
CALCIUM CARBONATE 1317-65-3	5 - 10	10 MG/m ³	Not established	Not established	Not established
TITANIUM DIOXIDE 13463-67-7	5 - 10	10 MG/m ³	Not established	Not established	Not established
TOLUENE 108-88-3	3 - 7	50 PPM	Not established	Not established	Not established
2-BUTOXY ETHANOL 111-76-2	1 - 5	S- 20 PPM		Not established	Not established
METHYL ISOBUTYL KETONE 108-10-1	1 - 5	50 ppm	75 PPM	Not established	Not established
XYLENES 1330-20-7	1 - 5	100 ppm	150 ppm	Not established	Not established
TALC 14807-96-6	1 - 5	R- 2 MG/m ³	Not established	Not established	Not established
AMORPHOUS SILICA 112926-00-8	0.5-1.5	10 MG/m ³	Not established	Not established	Not established
ETHYL BENZENE 100-41-4	0.1-1.0	100 PPM	125 PPM	Not established	Not established
CARBON BLACK 1333-86-4	0.1-1.0	3.5 mg/m ³	Not established	Not established	Not established
QUARTZ 14808-60-7	0.1-1.0	0.10 MG/m ³		Not established	Not established

Key: ACGIH=American Conference of Governmental Industrial Hygienists: OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit; IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Aborption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

SPECIFIC GRAVITY:

1.410

PHYSICAL STATE:

Liquid

Percent Solids:

64.65 58.790

Percent Volatile by Volume:

pH:

Not available.

ODOR THRESHOLD:

Not available.

Vapour Pressure:

7.4 mmHg

ODOR/APPEARANCE:

Viscous liquid with an odor

characteristic of the solvents listed in Section 2.

VAPOR DENSITY: **Evaporation Rate:**

HEAVIER THAN AIR 78

BOILING POINT OR RANGE:

212 - 381Degrees F Not Applicable.

Freezing Point or Range: Melting Point or Range(°C):

Not Applicable.

Partition coefficient (n-

Not Applicable.

octanol/water):

WEIGHT PER GALLON:

11.75 (U.S.) / 14.1 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

This product is normally stable and will not undergo hazardous reactions.

Product ID: DP50LF (0808)
PRODUCT NAME: EPOXY PRIMER GRAY

CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide Carbon dioxide Oxides of sulfur Oxides of barium
- Oxides of phosphorus Lower molecular weight polymer fractions Silicon oxides

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
EPOXY RESIN 25068-38-6	10 - 30	2.00 g/kg	2.00 g/kg	Not Available
METHYL (N-AMYL) KETONE 110-43-0	7 - 13	1.60 g/kg	10.21 g/kg	Not Available
TITANIUM DIOXIDE 13463-67-7	5 - 10	10.00 g/kg	Not Available	Not Available
TOLUENE 108-88-3	3 - 7	.64 g/kg	8.39 g/kg	12.50 g/L. 4 hr.
2-BUTOXY ETHANOL 111-76-2	1 - 5	.47 g/kg	.22 g/kg	2.18 g/L. 4 hr.
AROMATIC NAPHTHA 64742-95-6	1 - 5	8.40 g/kg	3.48 g/kg	5.20 g/L. 4 hr.
METHYL ISOBUTYL KETONE 108-10-1	1 - 5	2.08 g/kg	Not Available	32.77 g/L. 4 hr.
XYLENES 1330-20-7	1 - 5	4.30 g/kg	1.70 g/kg	21.88 g/L. 4 hr.
1,2,4-TRIMETHYL BENZENE 95-63-6	1 - 5	Not Available	Not Available	18.00 g/L. 4 hr.
ETHYL BENZENE 100-41-4	0.1-1.0	3.50 g/kg	17.80 g/kg	Not Available
CARBON BLACK 1333-86-4	0.1-1.0	15.40 g/kg	3.00 g/kg	Not Available

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- None known - Bone marrow and blood tissues - Blood - Kidney - Liver - Teratogen - Embryotoxin - Brain - Central nervous system - Carcinogen - Lung

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

Material/ CAS Number	Percent	Ingredient Specific Animal Data:
TITANIUM DIOXIDE 13463-67-7	5 - 10	This product contains titanium dioxide. Animals inhaling massive quantities of titanium dioxide dust in a long-term study developed lung tumors. Studies with humans involved in manufacture of this pigment indicate no increased risk of cancer from exposure.
2-BUTOXY ETHANOL 111-76-2	1-5	This product contains an ethylene series glycol ether and/or acetate which has been shown to cause adverse effects on the kidneys, liver, blood and/or blood-forming tissue. In a two-year NTP inhalation study, there was no significant increase in the incidence of any type of tumor in rats exposed to 2-butoxy ethanol at concentrations up to 125 ppm except a questionable trend in the incidence of adrenal gland tumors in female rats. When mice were exposed to concentrations of 62.5, 125, and 250 ppm, there was some evidence of carcinogenicity found in the liver of male mice and the forestomach of female mice at 250 ppm. This product contains an ingredient which has been shown to cause adverse reproductive effects in animals at doses which are also toxic to the mother.
ETHYL BENZENE 100-41-4	0.1-1.0	Ethylbenzene has been reported by NTP to cause cancer in laboratory animals following a chronic (2 year) inhalation exposure. Dose levels of 75, 250 and 750 ppm were used, with evidence of carcinogenicity found in the kidneys of rats and the lung and liver of mice at 750 ppm. The No Observed Effect Level (NOEL) was 75 ppm. The relevance of these findings to humans is uncertain, but appropriate safeguards should be employed to reduce or eliminate inhalation exposure to ethylbenzene.
CARBON BLACK 1333-86-4	0.1-1.0	This product contains carbon black which has been rated an IARC 2B carcinogen due to animal data.

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility: Biodegradation: Bioaccumulation: No information available. No information available. No Information Available.

PHYSICAL/CHEMICAL

Hydrolysis: Photolysis: No information available. No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name:

Paint

NOS Technical Name:

None 3

Hazard Class: Subsidiary Class(es):

None

UN Number:

UN1263

Packing Group:

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Refinish Products 19699 Progress Drive Strongsville, OH 44149

Product ID: DP50LF (0808)
PRODUCT NAME: EPOXY PRIMER GRAY

USA - RQ Hazardous Substances: Xylenes, Toluene

USA-RQ Hazardous Substance Threshold Ship Weight: Xylenes>3278.36 Pounds, Toluene>18622.16 Pounds

Marine Pollutant Name:

None

USA Shipments Only - RQ Threshold Ship Weight: This is the total weight of this product that must be shipped to exceed the RQ quantity.

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

o o i to guitatiro i i o				
Material/ CAS Number	Percent	CERCLA HS -	SARA EHS-	SARA 313
CAS Number		RQ (LBS)	TPQ (LBS)	0711111010
EPOXY RESIN	10 - 30	Not Listed	Not Listed	Not Listed
25068-38-6	10 00	THOU ENGLOS	1101 21010	
BARIUM SULFATE	10 - 30	Not Listed	Not Listed	Not Listed
7727-43-7	10 00	THE ELECTION		
METHYL (N-AMYL)	7 - 13	Not Listed	Not Listed	Not Listed
KETONE				
110-43-0				
CALCIUM	5 - 10	Not Listed	Not Listed	Not Listed
CARBONATE				
1317-65-3				
TITANIUM DIOXIDE	5 - 10	Not Listed	Not Listed	Not Listed
13463-67-7				
TOLUENE	3 - 7	1000 lbs	Not Listed	Listed
108-88-3				2000000
2-BUTOXY	1 - 5	Not Listed	Not Listed	Not Listed
ETHANOL				
111-76-2				Maritima
AROMATIC	1 - 5	Not Listed	Not Listed	Not Listed
NAPHTHA				
64742-95-6	1 5	5000 lbs	Not Listed	Listed
METHYL	1 - 5	5000 lbs	Not Listed	Listed
ISOBUTYL KETONE				
108-10-1				
XYLENES	1 - 5	100 lbs	Not Listed	Listed
1330-20-7	1 - 3	100 105	110t Elbiod	Liotos
TALC	1 - 5	Not Listed	Not Listed	Not Listed
14807-96-6		1101 210100	. 121 - 121 - 1	1157 - 1170
VINYL RESIN	1 - 5	Not Listed	Not Listed	Not Listed
25086-48-0	22X) (V-5.		Acceptable of	
1,2,4-TRIMETHYL	1 - 5	Not Listed	Not Listed	Listed
BENZENE				
95-63-6		i .		
AMORPHOUS	0.5-1.5	Not Listed	Not Listed	Not Listed
SILICA				
112926-00-8				
ETHYL BENZENE	0.1-1.0	1000 lbs	Not Listed	Listed
100-41-4				
CARBON BLACK	0.1-1.0	Not Listed	Not Listed	Not Listed
1333-86-4				
QUARTZ	0.1-1.0	Not Listed	Not Listed	Not Listed
14808-60-7			er er er	
(As Glycol ethers)	•	Not Listed	Not Listed	Listed
111-76-2				

SARA 311/312

Health (acute): Yes
Health (chronic): Yes
Fire (flammable): Yes
Pressure: No
Reactivity: No

WHMIS HAZARD CLASS: - Class B, Division 2 - Class D, Division 2, Subdivision A - Class D, Division 2, Subdivision B - Class D, Division 1,

Subdivision B

STATE/PROVINCIAL REGULATIONS

CALIFORNIA PROP. 65: WARNING: This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

Additional Information

Material/	Percent				Section of the sectio		
CAS Number		IARC	IARC	IARC	ACGIH	NTP	<u>OSHA</u>
(4)		Group	Group	2B (Carc.	Known	Carc.
		1(Kno	2A	Suspec		Carc.	
		wn	(Proba	ted			
		Human	ble	Carc.)			
		Carc.)	Carc.)				
ETHYL BENZENE 100-41-4	0.1-1.0	N	N	Y	N	N	Y
CARBON BLACK 1333-86-4	0.1-1.0	N	N	Y	N	N	Y
QUARTZ 14808-60-7	0.1-1.0	Y	N	N	Y	N	Y

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; OSHA-Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 2 30 HMIS Rating: 2*30

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department REASON FOR REVISION: Section 14 has been updated. Date. Edition. Updated MSDS format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

DP50LF 000012 (00338450.001)(04/07/05) 050407, 000, 0808

MATERIAL SAFETY DATA SHEET



SECTION 1 - PRODUCT AND COMPANY INFORMATION

Refinish Products 19699 Progress Drive Strongsville, OH 44149

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

TECHNICAL (440) 572-2800

INFORMATION:

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

- 4:30 p.m. EST

Product ID: PRODUCT NAME: DP90LF (0808)

EPOXY PRIMER BLACK SYNONYMS: None

ISSUE DATE:

EDITION NO.:

04/14/2006

CHEMICAL

Ероху

FAMILY:

EMERGENCY OVERVIEW:

Flammable. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone.CAUSES SEVERE EYE IRRITATION, MAY CAUSE MODERATE SKIN IRRITATION, MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE AN ALLERGIC SKIN REACTION. VAPOR AND/OR SPRAY MIST HARMFUL IF INHALED. VAPOR IRRITATES EYES, NOSE, AND THROAT.HARMFUL OR FATAL IF SWALLOWED.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Material/	Percent	Hazardous	
CAS Number EPOXY RESIN	10 - 30	X	
25068-38-6			
CALCIUM CARBONATE	10 - 30	X	
1317-65-3	40.00	V	
BARIUM SULFATE	10 - 30	. X	
7727-43-7	7 40	X	
METHYL (N-AMYL) KETONE 110-43-0	7 - 13	^	
TOLUENE	3 - 7	Х	
108-88-3	3-1	^	
METHYL ISOBUTYL KETONE	3 - 7	Х	
108-10-1	5 7		
2-BUTOXY ETHANOL	1 - 5	X	
111-76-2	0.00 OS	1,700	
AROMATIC NAPHTHA	1 - 5	X	
64742-95-6			
XYLENES	1 - 5	X	
1330-20-7			
TALC	1 - 5	X	
14807-96-6			
VINYL RESIN	1 - 5	X	
25086-48-0			
1,2,4-TRIMETHYL BENZENE	1 - 5	X	
95-63-6		200	
CARBON BLACK	1 - 5	X	
1333-86-4		57	
ETHYL BENZENE	0.1-1.0	X	
100-41-4	0440	V	
QUARTZ	0.1-1.0	X	
14808-60-7	*	X	See Sections 8
(As Silica, crystalline and Quartz) 14808-60-7		^	and 15 for
14808-60-7			information.
(Mineral Spirits Group #2)		X	See Sections 8
64742-95-6		^	and 15 for
04742-95-0			information.
(As Glycol ethers)	*	X	See Sections 8
111-76-2			and 15 for
111102			information.
(Ontario Glycol Ether)	*	X	See Sections 8
111-76-2			and 15 for
			information.

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes severe eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause moderate skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

May be harmful if absorbed through the skin. Prolonged or repeated contact may cause an allergic skin reaction.

INHALATION:

Vapor and/or spray mist harmful if inhaled. Vapor irritates eyes, nose, and throat.

INGESTION:

Harmful or fatal if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal, Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

Product ID: DP90LF (0808)
PRODUCT NAME: EPOXY PRIMER BLACK

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. This product contains crystalline silica which has been classified as a human carcinogen by IARC. Long-term exposures may also lead to a disabling lung condition known as silicosis. The risk depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Use of appropriate personal protective equipment and/or engineering controls should be employed whenever these types of operations are being performed. This product contains toluene. Toluene inhalation in animals (greater than 1500 ppm) and intentional inhalation of toluene-containing products by humans (e.g. glue) has caused adverse fetal development effects. This product contains talc. In a lifetime inhalation study female rats exposed to an elevated respirable concentration (9 times the Permissible Exposure Limit) of cosmetic grade talc developed lung cancer. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo and fetus. These effects were often at levels toxic to the mother. The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 80 Degrees F (27 Degrees C)

FLASHPOINT TEST METHOD:

Pensky-Martens Closed Cup

UEL: Not Available.

LEL: 1.2

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IC flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IC flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT

EYES:

Wear chemical-type splash goggles when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors. SKIN/GLOVES:

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: nitrile rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes.

Product ID: DP90LF (0808) PRODUCT NAME: EPOXY PRIMER BLACK

RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positivepressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting. GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS If Threshold Limit Values (TLVs) have been established by ACGIH, OSHA, Ontario or PPG, they will be listed below. These limits are intended for use in the practice of industrial hygiene as guidelines or recommendations in the control of potential workplace health hazards. These limits are not a relative index of toxicity and should not be used by anyone without industrial hygiene training.

Material/	Percent	ACGIH TLV		OSHA PEL	OSHA
CAS Number			STEL		STEL
CALCIUM CARBONATE 1317-65-3	10 - 30	Not established	Not established	R- 5 mg/m ³	Not established
BARIUM SULFATE 7727-43-7	10 - 30	10 mg/m ³	Not established	R- 5 mg/m ³	Not established
METHYL (N-AMYL) KETONE 110-43-0	7 - 13	50 ppm	Not established	100 ppm	Not established
TOLUENE 108-88-3	3 - 7	S- 50 ppm	Not established	100 ppm	150 ppm
METHYL ISOBUTYL KETONE 108-10-1	3 - 7	50 ppm	75 ppm	50 ppm	75 ppm
2-BUTOXY ETHANOL 111-76-2	1 - 5	20 PPM	Not established	S- 25 ppm	Not established
XYLENES 1330-20-7	1 - 5	100 ppm	150 ppm	100 ppm	150 ppm
TALC 14807-96-6	1 - 5	R- 2 mg/m ³	Not established	R- 2 mg/m ³	Not established
CARBON BLACK 1333-86-4	1 - 5	3.5 mg/m ³	Not established	3.5 mg/m ³	Not established
ETHYL BENZENE 100-41-4	0.1-1.0	100 ppm	125 ppm	100 ppm	125 ppm
QUARTZ 14808-60-7	0.1-1.0	R- 0.05 MG/m ³	Not established	R- 0.1 mg/m ³	Not established

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
CALCIUM CARBONATE 1317-65-3	10 - 30	10 MG/m ³	Not established	Not established	Not established
BARIUM SULFATE 7727-43-7	10 - 30	10 MG/m ³	Not established	Not established	Not established
METHYL (N-AMYL) KETONE 110-43-0	7 - 13	25 ppm	Not established	Not established	Not established
TOLUENE 108-88-3	3 - 7	50 PPM	Not established	Not established	Not established
METHYL ISOBUTYL KETONE 108-10-1	3 - 7	50 ppm	75 PPM	Not established	Not established
2-BUTOXY ETHANOL 111-76-2	1 - 5	S- 20 PPM	Not established	Not established	Not established
XYLENES 1330-20-7	1 - 5	100 ppm	150 ppm	Not established	Not established
TALC 14807-96-6	1 - 5	R- 2 MG/m ³	Not established	Not established	Not established
CARBON BLACK 1333-86-4	1 - 5	3.5 mg/m ³	Not established	Not established	Not established
ETHYL BENZENE 100-41-4	0.1-1.0	100 PPM	125 PPM	Not established	Not established
QUARTZ 14808-60-7	0.1-1.0	0.10 MG/m ³	Not established	Not established	Not established

Kev: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit; IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit: Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Aborption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

SPECIFIC GRAVITY: PHYSICAL STATE:

1.338 Liquid 62.27

Percent Solids: Percent Volatile by Volume:

59.720 Not available.

pH: ODOR THRESHOLD:

Not available. 8.0 mmHg

Vapour Pressure: ODOR/APPEARANCE:

Viscous liquid with an odor characteristic of the solvents listed in

Section 2.

VAPOR DENSITY:

HEAVIER THAN AIR 84

Evaporation Rate: BOILING POINT OR RANGE:

212 - 381Degrees F

Freezing Point or Range:

Not Applicable. Not Applicable.

Melting Point or Range(°C): Partition coefficient (noctanol/water):

Not Applicable.

WEIGHT PER GALLON:

11.15 (U.S.) / 13.3 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:

This product is normally stable and will not undergo hazardous reactions. CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

Product ID: DP90LF (0808) PRODUCT NAME: EPOXY PRIMER BLACK

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide Carbon dioxide Oxides of sulfur Oxides of barium
- Oxides of phosphorus Lower molecular weight polymer fractions

SECTION 11 - TOXICOLOGICAL INFORMATION ACUTE TOXICITY

Material/	Percent	ORAL	DERMAL	INHALATION
CAS Number		LD50 (g/kg)	LD50 (g/kg)	LC50 (mg/l)
EPOXY RESIN	10 - 30	2.00 g/kg	2.00 g/kg	Not Available
25068-38-6		2 2		
METHYL (N-AMYL)	7 - 13	1.60 g/kg	10.21 g/kg	Not Available
KETONE				
110-43-0				
TOLUENE	3 - 7	.64 g/kg	8.39 g/kg	12.50 g/L. 4 hr.
108-88-3		DEC. PONS		
METHYL	3 - 7	2.08 g/kg	Not Available	32.77 g/L. 4 hr.
ISOBUTYL		Cox 455		7050
KETONE				
108-10-1				
2-BUTOXY	1 - 5	.47 g/kg	.22 g/kg	2.18 g/L. 4 hr.
ETHANOL				4100
111-76-2				
AROMATIC	1 - 5	8.40 g/kg	3.48 g/kg	5.20 g/L. 4 hr.
NAPHTHA				
64742-95-6				
XYLENES	1 - 5	4.30 g/kg	1.70 g/kg	21.88 g/L. 4 hr.
1330-20-7				
1,2,4-TRIMETHYL	1 - 5	Not Available	Not Available	18.00 g/L. 4 hr.
BENZENE				
95-63-6				
CARBON BLACK	1 - 5	15.40 g/kg	3.00 g/kg	Not Available
1333-86-4				
ETHYL BENZENE	0.1-1.0	3.50 g/kg	17.80 g/kg	Not Available
100-41-4				

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Bone marrow and blood tissues - Blood - Kidney - Liver - Teratogen -Embryotoxin - Brain - Central nervous system - Carcinogen - Lung

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

Material/	Percent	
CAS Number		Ingredient Specific Animal Data:
2-BUTOXY ETHANOL 111-76-2	1 - 5	This product contains an ethylene series glycol ether and/or acetate which has been shown to cause adverse effects on the kidneys, liver, blood and/or blood-forming tissue. In a two-year NTP inhalation study, there was no significant increase in the incidence of any type of tumor in rats exposed to 2-butoxy ethanol at concentrations up to 125 ppm except a questionable trend in the incidence of adrenal gland tumors in female rats. When mice were exposed to concentrations of 62.5, 125, and 250 ppm, there was some evidence of carcinogenicity found in the liver of male mice and the forestomach of female mice at 250 ppm. This product contains an ingredient which has been shown to cause adverse reproductive effects in animals at doses which are also toxic to the mother.
CARBON BLACK 1333-86-4	1 - 5	This product contains carbon black which has been rated an IARC 2B carcinogen due to animal data.
ETHYL BENZENE 100-41-4	0.1-1.0	Ethylbenzene has been reported by NTP to cause cancer in laboratory animals following a chronic (2 year) inhalation exposure. Dose levels of 75, 250 and 750 ppm were used, with evidence of carcinogenicity found in the kidneys of rats and the lung and liver of mice at 750 ppm. The No Observed Effect Level (NOEL) was 75 ppm. The relevance of these findings to humans is uncertain, but appropriate safeguards should be employed to reduce or eliminate inhalation exposure to ethylbenzene.

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility:

No information available.

Biodegradation: Bioaccumulation: No information available. No Information Available.

PHYSICAL/CHEMICAL

Hydrolysis:

No information available.

Photolysis:

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name:

Paint

NOS Technical Name:

None

Hazard Class:

None

Subsidiary Class(es):

UN1263

UN Number: Packing Group:

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USA - RQ Hazardous Substances: Xylenes, Toluene

USA-RQ Hazardous Substance Threshold Ship Weight:

Xylenes>3194.57 Pounds, Toluene>17985.79 Pounds

Marine Pollutant Name:

None

Refinish Products 19699 Progress Drive Strongsville, OH 44149

Product ID: DP90LF (0808)
PRODUCT NAME: EPOXY PRIMER BLACK

USA Shipments Only - RQ Threshold Ship Weight: This is the total weight of this product that must be shipped to exceed the RQ quantity.

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

Material/	Percent	2022 28 N 802	04B4 EUS	0.404.010
CAS Number		CERCLA HS - RQ (LBS)	SARA EHS- TPQ (LBS)	<u>SARA 313</u>
EDOVV DECIM	10 - 30	Not Listed	Not Listed	Not Listed
EPOXY RESIN 25068-38-6	10 - 30	NOI LISTED	NOI LISIEU	Not Listed
CALCIUM CARBONATE	10 - 30	Not Listed	Not Listed	Not Listed
1317-65-3 BARIUM SULFATE 7727-43-7	10 - 30	Not Listed	Not Listed	Not Listed
METHYL (N-AMYL) KETONE 110-43-0	7 - 13	Not Listed	Not Listed	Not Listed
TOLUENE 108-88-3	3 - 7	1000 lbs	Not Listed	Listed
METHYL ISOBUTYL KETONE 108-10-1	3 - 7	5000 lbs	Not Listed	Listed
2-BUTOXY ETHANOL 111-76-2	1 - 5	Not Listed	Not Listed	Not Listed
AROMATIC NAPHTHA 64742-95-6	1 - 5	Not Listed	Not Listed	Not Listed
XYLENES 1330-20-7	1 - 5	100 lbs	Not Listed	Listed
TALC 14807-96-6	1 - 5	Not Listed	Not Listed	Not Listed
VINYL RESIN 25086-48-0	1 - 5	Not Listed	Not Listed	Not Listed
1,2,4-TRIMETHYL BENZENE 95-63-6	1 - 5	Not Listed	Not Listed	Listed
CARBON BLACK 1333-86-4	1 - 5	Not Listed	Not Listed	Not Listed
ETHYL BENZENE 100-41-4	0.1-1.0	1000 lbs	Not Listed	Listed
QUARTZ 14808-60-7	0.1-1.0	Not Listed	Not Listed	Not Listed
(As Glycol ethers) 111-76-2	*	Not Listed	Not Listed	Listed

SARA 311/312

Health (acute):

Yes

Health (chronic):

Yes

Fire (flammable): Pressure: Yes

Reactivity:

No No

WHMIS HAZARD CLASS: - Class B, Division 2 - Class D, Division 2, Subdivision A - Class D, Division 2, Subdivision B - Class D, Division 1, Subdivision B

STATE/PROVINCIAL REGULATIONS

CALIFORNIA PROP. 65: WARNING: This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

Additional Information

Material/ CAS Number	Percent	IARC Group 1(Kno wn Human Carc.)	IARC Group 2A (Proba ble Carc.)	IARC 2B (Suspec ted Carc.)	ACGIH Carc.	NTP Known Carc.	OSHA Carc.
CARBON BLACK 1333-86-4	1 - 5	N	N	Y	N	N	Υ
ETHYL BENZENE 100-41-4	0.1-1.0	N	N	Υ	N	N	Y
QUARTZ 14808-60-7	0.1-1.0	Y	N	N	Y	N	Y

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; OSHA-Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 2 30 HMIS Rating: 2*30

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department

REASON FOR REVISION: Section 2 has been updated. Changes to this section may also result in changes in sections 8, 11 and/or 15. Section 11 has been updated. Date. Edition.

Updated MSDS

format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

DP90LF 000010 (00353877.001)(07/27/05) 050727, 000, 0808



SECTION 1 - PRODUCT AND COMPANY INFORMATION

PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.) (24 hours/day):

> (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)

0532-83889090 (China)

TECHNICAL

(414) 764-6000 (OAK CREEK, WI) 8:00 a.m. -

INFORMATION: 5:00 p.m. Central

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

4:30 p.m. EST

Product ID:

DP401LF> (0819)

PRODUCT NAME:

LOW VOC DP CATALYST

SYNONYMS: ISSUE DATE: None 09/01/2006

EDITION NO.:

CHEMICAL

Polyamide

FAMILY:

EMERGENCY OVERVIEW:

Flammable. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone.CAUSES SEVERE EYE IRRITATION. MAY CAUSE MODERATE SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE AN ALLERGIC SKIN REACTION. VAPOR AND/OR SPRAY MIST HARMFUL IF INHALED. VAPOR IRRITATES EYES, NOSE, AND THROAT, VAPOR GENERATED AT ELEVATED TEMPERATURES IRRITATES EYES, NOSE AND THROAT.HARMFUL OR FATAL IF SWALLOWED.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Percent	<u>Hazardous</u>	
10 - 30	X	
10 - 30	X	
10 - 30	X	
		*
7 - 13	X	
5 - 10	X	29
22		
3 - 7	X	
3 - 7	X	
	X	See Sections 8
		and 15 for information.
	10 - 30 10 - 30 10 - 30 7 - 13 5 - 10 3 - 7 3 - 7	10 - 30 X 10 - 30 X 10 - 30 X 7 - 13 X 5 - 10 X 3 - 7 X

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes severe eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause moderate skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin

SKIN ABSORPTION:

May be harmful if absorbed through the skin. Prolonged or repeated contact may cause an allergic skin reaction.

INHALATION:

Vapor and/or spray mist harmful if inhaled. Vapor irritates eyes, nose, and throat. Vapor generated at elevated temperatures irritates eyes, nose and throat.

INGESTION:

Harmful or fatal if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Prolonged exposure to an ingredient(s) in this product may cause kidney and/or liver damage. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo and fetus. These effects were often at levels toxic to the mother. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone.

The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given if person is fully conscious. Never give anything by mouth to an unconscious or convulsing person. Do Not induce vomiting. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

Product ID: DP401LF> (0819)
PRODUCT NAME: LOW VOC DP CATALYST

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 64 Degrees F (18 Degrees C)

FLASHPOINT TEST METHOD: Pensky-Martens Closed Cup

UEL: Not Available.

LEL: 1.9

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IB flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

STORAGE

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IB flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT EYES:

Wear chemical-type splash goggles when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

SKIN/GLOVES:

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: butyl rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes. RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS
If Threshold Limit Values (TLVs) have been established by ACGIH,
OSHA, Ontario or PPG, they will be listed below. These limits are
intended for use in the practice of industrial hygiene as guidelines or
recommendations in the control of potential workplace health hazards.
These limits are not a relative index of toxicity and should not be used by
anyone without industrial hygiene training.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
PROPYL ALCOHOL 71-23-8	10 - 30	200 PPM	400 PPM	200 ppm	250 ppm
XYLENES 1330-20-7	10 - 30	100 ppm	150 PPM	100 ppm	150 ppm
2-BUTOXY ETHANOL 111-76-2	5 - 10	20 PPM	Not established	S- 25 ppm	Not established
ISOPROPYL ALCOHOL 67-63-0	3 - 7	200 PPM	400 PPM	400 ppm	500 ppm

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
PROPYL ALCOHOL 71-23-8	10 - 30	S- 200 ppm	250 ppm	Not established	Not established
XYLENES 1330-20-7	10 - 30	100 ppm	150 ppm	Not established	Not established
2-BUTOXY ETHANOL 111-76-2	5 - 10	S- 20 PPM	Not established	Not established	Not established
ISOPROPYL ALCOHOL 67-63-0	3 - 7	200 PPM	400 PPM	Not established	Not established

Key: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit (1989 Vacated values); IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Absorption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

SPECIFIC GRAVITY:

.880 Liquid

PHYSICAL STATE: Percent Solids:

29.77

PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

Product ID: DP401LF> (0819)
PRODUCT NAME: LOW VOC DP CATALYST

Percent Volatile by Volume:

72,990

nH.

ODOR THRESHOLD:

Not available. Not available.

Vapour Pressure:

35.8 mmHg

ODOR/APPEARANCE:

Viscous liquid with an odor

characteristic of the solvents listed in

Section 2.

VAPOR DENSITY:

HEAVIER THAN AIR

Evaporation Rate: BOILING POINT OR RANGE:

180 - 351Degrees F Not Applicable.

Freezing Point or Range: Melting Point or Range(°C): Partition coefficient (n-

Not Applicable. Not Applicable.

octanol/water):

WEIGHT PER GALLON:

7.33 (U.S.) / 8.7 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:

This product is normally stable and will not undergo hazardous reactions. CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide - Carbon dioxide - Oxides of nitrogen - Lower molecular weight polymer fractions

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
PROPYL ALCOHOL 71-23-8	10 - 30	1.87 g/kg	4.05 g/kg	9.80 g/L. 4 hr.
XYLENES 1330-20-7	10 - 30	4.30 g/kg	1.70 g/kg	21.88 g/L. 4 hr.
AROMATIC NAPHTHA 64742-95-6	7 - 13	8.40 g/kg	3.48 g/kg	5.20 g/L. 4 hr.
2-BUTOXY ETHANOL 111-76-2	5 - 10	.47 g/kg	.22 g/kg	2.18 g/L. 4 hr.
ISOPROPYL ALCOHOL 67-63-0	3 - 7	4.40 g/kg	12.80 g/kg	72.60 g/L. 4 hr.
1,2,4-TRIMETHYL BENZENE 95-63-6	3 - 7	Not Available	Not Available	18.00 g/L. 4 hr.

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Bone marrow and blood tissues - Blood - Embryotoxin - Ear - Kidney - Liver - Brain - Central nervous system - Lung - Carcinogen

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

Material/ CAS Number	Percent	Ingredient Specific Animal Data:
PROPYL ALCOHOL 71-23-8	10 - 30	This product contains n-propanol. ACGIH has classified n- propanol as an A3 carcinogen (confirmed animal carcinogen with unknown relevance to humans).
2-BUTOXY ETHANOL 111-76-2	5 - 10	This product contains an ethylene series glycol ether and/or acetate which has been shown to cause adverse effects on the kidneys, liver, blood and/or blood-forming tissue. In a two-year NTP inhalation study, there was no significant increase in the incidence of any type of tumor in rats exposed to 2-butoxy ethanol at concentrations up to 125 ppm except a questionable trend in the incidence of adrenal gland tumors in female rats. When mice were exposed to concentrations of 62.5, 125, and 250 ppm, there was some evidence of carcinogenicity found in the liver of male mice and the forestomach of female mice at 250 ppm. This product contains an ingredient which has been shown to cause adverse reproductive effects in animals at doses which are also toxic to the mother.

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility:

No information available. No information available. No Information Available.

Biodegradation: Bioaccumulation:

PHYSICAL/CHEMICAL

Hydrolysis: Photolysis:

No information available. No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name: NOS Technical Name: NOT AVAILABLE

NOS recnnicai

NOT AVAILABLE N.A.

Hazard Class:

N.A.

Subsidiary Class(es): UN Number:

N.A.

Packing Group:

N.A.

USA - RQ Hazardous Substances: NOT AVAILABLE USA-RQ Hazardous Substance NOT AVAILABLE

Threshold Ship Weight:

Marine Pollutant Name:

NOT AVAILABLE

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

Product ID: DP401LF> (0819)
PRODUCT NAME: LOW VOC DP CATALYST

<u>Material/</u> CAS Number	Percent	CERCLA HS -	SARA EHS- TPQ (LBS)	SARA 313
N.J. TRADE SECRET #80100337-5132	10 - 30	Not Listed	Not Listed	Not Listed
PROPYL ALCOHOL 71-23-8	10 - 30	Not Listed	Not Listed	Not Listed
XYLENES 1330-20-7	10 - 30	100 lbs	Not Listed	Listed
AROMATIC NAPHTHA 64742-95-6	7 - 13	Not Listed	Not Listed	Not Listed
2-BUTOXY ETHANOL 111-76-2	5 - 10	Not Listed	Not Listed	Not Listed
ISOPROPYL ALCOHOL 67-63-0	3 - 7	Not Listed	Not Listed	Not Listed
1,2,4-TRIMETHYL BENZENE 95-63-6	3 - 7	Not Listed	Not Listed	Listed
(As Glycol ethers) 111-76-2	*	Not Listed	Not Listed	Listed

SARA 311/312

Health (acute): Health (chronic):

Yes

Fire (flammable):

Yes Yes

Pressure:

No No

Reactivity:

WHMIS HAZARD CLASS: - Class B, Division 2 - Class D, Division 2, Subdivision A - Class D, Division 2, Subdivision B - Class D, Division 1,

Subdivision B

STATE/PROVINCIAL REGULATIONS

Additional Information

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; OSHA-

Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 2 30 HMIS Rating: 2*30

format.

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department REASON FOR REVISION: Date. Edition. Updated MSDS

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

DP401LF> 000001 (00423795.001)(09/01/06) 060831, 000, 0819



SECTION 1 - PRODUCT AND COMPANY INFORMATION

Refinish Products 19699 Progress Drive Strongsville, OH 44149

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

TECHNICAL

1-800-245-2590 (CLEVELAND, OH) 8:00 a.m. -

INFORMATION:

5:00 p.m. EST

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

- 4:30 p.m. EST

Product ID:

DT870 (0808)

PRODUCT NAME:

REDUCER

SYNONYMS:

None

ISSUE DATE:

05/02/2006

EDITION NO.:

SOLVENT

CHEMICAL

FAMILY:

EMERGENCY OVERVIEW:

Flammable. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone.CAUSES SEVERE EYE IRRITATION. MAY CAUSE MODERATE SKIN IRRITATION. VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED. VAPOR IRRITATES EYES, NOSE, AND THROAT.HARMFUL IF SWALLOWED.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Material/	Percent	<u>Hazardous</u>	
CAS Number			
METHYL ETHYL KETONE	15 - 40	X	
78-93-3			
1-METHOXY-2-PROPYL	10 - 30	X	
ACETATE			
108-65-6			
TOLUENE	10 - 30	X	
108-88-3			
V.M. AND P. NAPHTHA	10 - 30	X	
8032-32-4			
NAPHTHA	1 - 5	X	
64742-89-8			
N-HEPTANE	1 - 5	X	
142-82-5			
METHYLCYCLOHEXANE	1 - 5	×	
108-87-2			
2-METHOXY-1-PROPYL	0.1-1.0	X	
ACETATE			
70657-70-4			
[As Rubber solvent (Naphtha)]	.*	X See Section	
8032-32-4		and 15	
		informat	ion.

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes severe eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause moderate skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact

SKIN ABSORPTION:

Skin absorption not expected to occur.

INHALATION:

Vapor and/or spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat.

INGESTION:

Harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. This product contains toluene. Toluene inhalation in animals (greater than 1500 ppm) and intentional inhalation of toluene-containing products by humans (e.g. glue) has caused adverse fetal development effects. The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available.

EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 23 Degrees F (-5 Degrees C)

Product ID: DT870 (0808) PRODUCT NAME: REDUCER

FLASHPOINT TEST METHOD:

Pensky-Martens Closed Cup

UEL: Not Available.

LEL: 1.5

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IB flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE: Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IB flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT

EYES:

Wear chemical-type splash goggles when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

SKIN/GLOVES:

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: butyl, neoprene, or nitrile rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes. RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS
If Threshold Limit Values (TLVs) have been established by ACGIH,
OSHA, Ontario or PPG, they will be listed below. These limits are
intended for use in the practice of industrial hygiene as guidelines or
recommendations in the control of potential workplace health hazards.
These limits are not a relative index of toxicity and should not be used by
anyone without industrial hygiene training.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
METHYL ETHYL KETONE 78-93-3	15 - 40	200 ppm	300 ppm	200 ppm	300 ppm
TOLUENE 108-88-3	10 - 30	S- 50 ppm	Not established	100 ppm	150 ppm
V.M. AND P. NAPHTHA 8032-32-4	10 - 30	300 ppm	Not established	300 ppm	400 ppm
N-HEPTANE 142-82-5	1 - 5	400 ppm	500 ppm	400 ppm	500 ppm
METHYLCYCLOHE XANE 108-87-2	1 - 5	400 ppm	Not established	400 ppm	Not established

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
METHYL ETHYL KETONE 78-93-3	15 - 40	200 ppm	300 ppm	Not established	250 PPM
1-METHOXY-2- PROPYL ACETATE 108-65-6	10 - 30	50 PPM	Not established	100 ppm	Not established
TOLUENE 108-88-3	10 - 30	50 PPM	Not established	Not established	Not established
V.M. AND P. NAPHTHA 8032-32-4	10 - 30	500 MG/m ³	Not established	Not established	Not established
N-HEPTANE 142-82-5	1 - 5	400 ppm	500 ppm	Not established	Not established
METHYLCYCLOHE XANE 108-87-2	1 - 5	400 ppm	Not established	Not established	Not established
[As Rubber solvent (Naphtha)] 8032-32-4		1600 MG/m³	Not established	Not established	Not established

Product ID: DT870 (0808) PRODUCT NAME: REDUCER

Key: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit; IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Aborption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES
(FORMULA VALUES, NOT SALES SPECIFICATIONS)

SPECIFIC GRAVITY:

.829

PHYSICAL STATE:

Liquid .00

Percent Solids: Percent Volatile by Volume:

100.000

Not available.

ODOR THRESHOLD:

Not available.

Vapour Pressure:

41.4 mmHg

ODOR/APPEARANCE:

Non-viscous liquid with an odor

characteristic of the ingredients listed in Section 2.

VAPOR DENSITY:

HEAVIER THAN AIR

Evaporation Rate:

BOILING POINT OR RANGE:

172-302Degrees F

Freezing Point or Range:

Not Applicable.

Melting Point or Range(°C):

Not Applicable.

Partition coefficient (n-

Not Applicable.

octanol/water):

WEIGHT PER GALLON:

6.91 (U.S.) / 8.2 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:

This product is normally stable and will not undergo hazardous reactions. CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide - Carbon dioxide

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
METHYL ETHYL KETONE 78-93-3	15 - 40	2.74 g/kg	13.00 g/kg	Not Available
1-METHOXY-2- PROPYL ACETATE 108-65-6	10 - 30	8.53 g/kg	5.00 g/kg	Not Available
TOLUENE 108-88-3	10 - 30	.64 g/kg	8.39 g/kg	12.50 g/L. 4 hr.
METHYLCYCLOHE XANE 108-87-2	1 - 5	4.00 g/kg	Not Available	Not Available

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Reproductive - Embryotoxin - Teratogen - Brain - Central nervous system - Lung

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

CUDDI EMENTAL MEALTH INCORMATION:

Material/ CAS Number	Percent	Ingredient Specific Animal Data:
METHYL ETHYL KETONE 78-93-3	15 - 40	This product contains methyl ethyl ketone (MEK). MEK has been shown to cause minor embryotoxic/fetotoxic effects in laboratory animals exposed for prolonged periods at high concentrations via inhalation. The potential for human exposure to high concentrations is expected to be low due to the irritating effects of MEK at low concentrations.
2- METHOXY- 1-PROPYL ACETATE 70657-70-4	0.1-1.0	Possible reproductive hazard. An ingredient(s) in this product has adversely affected reproductive tissues and fetal development in test animals.

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility:

Biodegradation:

No information available.

No information available. No Information Available.

Bioaccumulation:

PHYSICAL/CHEMICAL

Hydrolysis: Photolysis:

No information available.

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

3

Proper Shipping Name:

Paint Related Material

NOS Technical Name:

None

Hazard Class: Subsidiary Class(es):

None UN1263

UN Number: Packing Group:

11

USA - RQ Hazardous Substances: Toluene, Methyl Ethyl Ketone **USA-RQ Hazardous Substance**

Toluene>5263.21 Pounds, Methyl Ethyl Ketone>15398.85 Pounds

Threshold Ship Weight:

Marine Pollutant Name:

None

USA Shipments Only - RQ Threshold Ship Weight: This is the total weight of this product that must be shipped to exceed the RQ quantity.

Refinish Products 19699 Progress Drive Strongsville, OH 44149

Product ID: DT870 (0808) PRODUCT NAME: REDUCER

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

Material/	Percent			
CAS Number		CERCLA HS -	SARA EHS-	SARA 313
		RQ (LBS)	TPQ (LBS)	
METHYL ETHYL KETONE 78-93-3	15 - 40	5000 lbs	Not Listed	Not Listed
1-METHOXY-2- PROPYL ACETATE 108-65-6	10 - 30	Not Listed	Not Listed	Not Listed
TOLUENE 108-88-3	10 - 30	1000 lbs	Not Listed	Listed
V.M. AND P. NAPHTHA 8032-32-4	10 - 30	Not Listed	Not Listed	Not Listed
NAPHTHA 64742-89-8	1 - 5	Not Listed	Not Listed	Not Listed
N-HEPTANE 142-82-5	1 - 5	Not Listed	Not Listed	Not Listed
METHYLCYCLOHE XANE 108-87-2	1 - 5	Not Listed	Not Listed	Not Listed
2-METHOXY-1- PROPYL ACETATE 70657-70-4	0.1-1.0	Not Listed	Not Listed	Not Listed

SARA 311/312

Health (acute):

Yes Health (chronic): Yes

Fire (flammable):

Pressuré:

Reactivity:

No

Yes

No

WHMIS HAZARD CLASS: - Class B, Division 2 - Class D, Division 2, Subdivision A - Class D, Division 2, Subdivision B

STATE/PROVINCIAL REGULATIONS

CALIFORNIA PROP. 65: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Additional Information

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; OSHA-Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 2 30 HMIS Rating: 230

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association:

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department

REASON FOR REVISION: Date. Edition. Updated MSDS

format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

000003 (00372162.001)(11/23/05) DT870 051122, 000, 0808



SECTION 1 - PRODUCT AND COMPANY INFORMATION

PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

TECHNICAL

(440) 572-2800 (STRONGSVILLE OHIO) 8:00

INFORMATION:

a.m. - 5:00 p.m. EST

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

4:30 p.m. EST

Product ID:

DTL10 (0808)

PRODUCT NAME: SYNONYMS:

ACRYLIC LACQUER THINNER

ISSUE DATE:

None

05/02/2006

EDITION NO.: CHEMICAL

SOLVENT

FAMILY:

EMERGENCY OVERVIEW:

Extremely flammable. Vapors may cause flash fires. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone.CAUSES SEVERE EYE IRRITATION. MAY CAUSE MODERATE SKIN IRRITATION, MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED, VAPOR IRRITATES EYES, NOSE, AND THROAT. VAPOR GENERATED AT ELEVATED TEMPERATURES IRRITATES EYES, NOSE AND THROAT.HARMFUL IF SWALLOWED.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Material/	Percent	<u>Hazardous</u>
CAS Number		
TOLUENE	40 - 70	X
108-88-3		
ACETONE	10 - 30	X
67-64-1		
ISOPROPYL ALCOHOL	10 - 30	X
67-63-0		
N-HEXANE	3 - 7	X
110-54-3		
NAPHTHA	1 - 5	X
64742-89-8		
ISOHEXANE	1 - 5	X
107-83-5		
1-METHOXY-2-PROPYL	1 - 5	X
ACETATE		
108-65-6		
3-METHYLPENTANE	1 - 5	X
96-14-0		

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes severe eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause moderate skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin

SKIN ABSORPTION:

May be harmful if absorbed through the skin.

INHALATION:

Vapor and/or spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat. Vapor generated at elevated temperatures irritates eyes, nose and throat.

INGESTION:

Harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Nhexane has caused peripheral neuropathy, characterized by numbness and weakness in the extremities. This product contains toluene. Toluene inhalation in animals (greater than 1500 ppm) and intentional inhalation of toluene-containing products by humans (e.g. glue) has caused adverse fetal development effects.

The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately: have Material Safety Data Sheet information available.

EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

Product ID: DTL10 (0808)
PRODUCT NAME: ACRYLIC LACQUER THINNER

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 10 Degrees F (-12 Degrees C)

FLASHPOINT TEST METHOD: Pensky-Martens Closed Cup

UEL: Not Available.

LEL: 1.5

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IB flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE: Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IB flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT

EYES:

Wear chemical-type splash goggles when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

SKIN/GLOVES:

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: nitrile rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes. RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS
If Threshold Limit Values (TLVs) have been established by ACGIH,
OSHA, Ontario or PPG, they will be listed below. These limits are
intended for use in the practice of industrial hygiene as guidelines or
recommendations in the control of potential workplace health hazards.
These limits are not a relative index of toxicity and should not be used by
anyone without industrial hygiene training.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
TOLUENE 108-88-3	40 - 70	S- 50 ppm		100 ppm	150 ppm
ACETONE 67-64-1	10 - 30	500 ppm	750 ppm	750 ppm	1000 ppm
ISOPROPYL ALCOHOL 67-63-0	10 - 30	200 PPM	400 PPM	400 ppm	500 ppm
N-HEXANE 110-54-3	3 - 7	S- 50 ppm	Not established	50 ppm	Not established

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
TOLUENE 108-88-3	40 - 70	50 PPM	Not established	Not established	Not established
ACETONE 67-64-1	10 - 30	500 PPM	750 PPM	Not established	Not established
ISOPROPYL ALCOHOL 67-63-0	10 - 30	200 PPM	400 PPM	Not established	Not established
N-HEXANE 110-54-3	3 - 7	50 ppm	Not established	Not established	Not established
1-METHOXY-2- PROPYL ACETATE 108-65-6	1 - 5	50 PPM	Not established	100 ppm	Not established

Key: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit; IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Aborption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

SPECIFIC GRAVITY:

.803

PHYSICAL STATE:

Liquid

PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

Product ID: DTL10 (0808) PRODUCT NAME: ACRYLIC LACQUER THINNER

Percent Solids:

.00

Percent Volatile by Volume:

100.000

Not available.

ODOR THRESHOLD:

Not available.

Vapour Pressure:

88.1 mmHg

ODOR/APPEARANCE:

Non-viscous liquid with an odor characteristic of the ingredients

listed in Section 2.

VAPOR DENSITY: **Evaporation Rate:**

HEAVIER THAN AIR 537

BOILING POINT OR RANGE: Freezing Point or Range:

133-302Degrees F Not Applicable.

Melting Point or Range(°C): Partition coefficient (n-

Not Applicable. Not Applicable.

octanol/water):

WEIGHT PER GALLON:

6.69 (U.S.) / 8.0 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:

This product is normally stable and will not undergo hazardous reactions. CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide - Carbon dioxide

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
TOLUENE 108-88-3	40 - 70	.64 g/kg	8.39 g/kg	12.50 g/L. 4 hr.
ACETONE 67-64-1	10 - 30	1.80 g/kg	20.00 g/kg	76.00 g/L. 4 hr.
ISOPROPYL ALCOHOL 67-63-0	10 - 30	4.40 g/kg	12.80 g/kg	72.60 g/L. 4 hr.
1-METHOXY-2- PROPYL ACETATE 108-65-6	1 - 5	8.53 g/kg	5.00 g/kg	Not Available

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Teratogen - Neurotoxin - Brain - Central nervous system - Lung

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

	SECTION 12 - ECOLOGICAL INFORMATION	
POTENTIAL	ENVIRONMENTAL EFFECTS	

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility:

No information available.

Biodegradation:

No information available.

Bioaccumulation:

No Information Available.

PHYSICAL/CHEMICAL

Hydrolysis: Photolysis: No information available.

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name:

Paint Related Material

NOS Technical Name:

None 3

Hazard Class: Subsidiary Class(es):

None

UN Number: Packing Group: UN1263

USA - RQ Hazardous Substances: Toluene, Acetone, Benzene Toluene>2206.07 Pounds,

USA-RQ Hazardous Substance Threshold Ship Weight:

Acetone>25445.32 Pounds, Benzene>33366.67 Pounds

Marine Pollutant Name:

None

USA Shipments Only - RQ Threshold Ship Weight: This is the total weight of this product that must be shipped to exceed the RQ quantity.

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

Material/ CAS Number	Percent	CERCLA HS -	SARA EHS- TPQ (LBS)	SARA 313
TOLUENE 108-88-3	40 - 70	1000 lbs	Not Listed	Listed
ACETONE 67-64-1	10 - 30	5000 lbs	Not Listed	Not Listed
ISOPROPYL ALCOHOL 67-63-0	10 - 30	Not Listed	Not Listed	Not Listed
N-HEXANE 110-54-3	3 - 7	5000 LBS	Not Listed	Listed
NAPHTHA 64742-89-8	1 - 5	Not Listed	Not Listed	Not Listed
ISOHEXANE 107-83-5	1 - 5	Not Listed	Not Listed	Not Listed
1-METHOXY-2- PROPYL ACETATE 108-65-6	1 - 5	Not Listed	Not Listed	Not Listed
3- METHYLPENTANE 96-14-0	1 - 5	Not Listed	Not Listed	Not Listed

PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

Product ID: DTL10 (0808) PRODUCT NAME: ACRYLIC LACQUER THINNER

SARA 311/312

Health (acute): Health (chronic): Yes Yes

Fire (flammable):

Yes

Pressure:

No

Reactivity:

No WHMIS HAZARD CLASS: - Class B, Division 2 - Class D, Division 2,

Subdivision A - Class D, Division 2, Subdivision B

STATE/PROVINCIAL REGULATIONS

CALIFORNIA PROP. 65: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Additional Information

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 2 30 HMIS Rating: 2*30

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association:

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department REASON FOR REVISION: Section 15 has been updated. Section 1 has been updated. Section 3 has been updated. Date. Edition. Updated MSDS format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

000001 (00372165.001)(11/23/05) DTL10 051122, 000, 0808



SECTION 1 - PRODUCT AND COMPANY INFORMATION

Refinish Products 19699 Progress Drive Strongsville, OH 44149

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

TECHNICAL

(440) 572-2800

INFORMATION:

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

4:30 p.m. EST

Product ID:

DTR600 (0808)

PRODUCT NAME:

FAST REDUCÉR

SYNONYMS:

None

ISSUE DATE:

04/14/2006

EDITION NO.:

CHEMICAL

SOLVENT

FAMILY:

EMERGENCY OVERVIEW:

Extremely flammable. Vapors may cause flash fires. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone. CAUSES SEVERE EYE IRRITATION, MAY CAUSE MODERATE SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED. VAPOR IRRITATES EYES, NOSE, AND THROAT. VAPOR GENERATED AT ELEVATED TEMPERATURES IRRITATES EYES, NOSE AND THROAT.HARMFUL IF SWALLOWED.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Material/	Percent	<u>Hazardous</u>
CAS Number		
ACETONE	15 - 40	X
67-64-1		
NAPHTHA	10 - 30	X
64742-89-8		
METHYLCYCLOHEXANE	5 - 10	X
108-87-2		
N-HEPTANE	5 - 10	X
142-82-5		
N-BUTYL ACETATE	5 - 10	X
123-86-4		
N-HEXANE	5 - 10	X
110-54-3		
ISOHEXANE	3 - 7	X
107-83-5		
3-METHYLPENTANE	3 - 7	X
96-14-0		
AROMATIC NAPHTHA	1 - 5	X
64742-95-6		
TOLUENE	1 - 5	X
108-88-3		
1,2,4-TRIMETHYL BENZENE	0.5-1.5	X
95-63-6		
XYLENES	0.1-1.0	X
1330-20-7		

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes severe eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause moderate skin irritation, Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

May be harmful if absorbed through the skin.

INHALATION:

Vapor and/or spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat. Vapor generated at elevated temperatures irritates eves, nose and throat.

INGESTION:

Harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Nhexane has caused peripheral neuropathy, characterized by numbness and weakness in the extremities. This product contains toluene. Toluene inhalation in animals (greater than 1500 ppm) and intentional inhalation of toluene-containing products by humans (e.g. glue) has caused adverse fetal development effects. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo and fetus. These effects were often at levels toxic to the mother. The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available.

EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

Product ID: DTR600 (0808) PRODUCT NAME: FAST REDUCER

INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: -4 Degrees F (-20 Degrees C)

FLASHPOINT TEST METHOD:

Pensky-Martens Closed Cup UEL: Not Available.

LEL: 1.5

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IB flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IB flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT

EYES:

Wear chemical-type splash goggles and full face shield when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

SKIN/GLOVES:

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: butyl, neoprene, or nitrile rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes. RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS
If Threshold Limit Values (TLVs) have been established by ACGIH,
OSHA, Ontario or PPG, they will be listed below. These limits are
intended for use in the practice of industrial hygiene as guidelines or
recommendations in the control of potential workplace health hazards.
These limits are not a relative index of toxicity and should not be used by
anyone without industrial hygiene training.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
ACETONE 67-64-1	15 - 40	500 ppm	750 ppm	750 ppm	1000 ppm
METHYLCYCLOHE XANE 108-87-2	5 - 10	400 ppm	Not established	400 ppm	Not established
N-HEPTANE 142-82-5	5 - 10	400 ppm	500 ppm	400 ppm	500 ppm
N-BUTYL ACETATE 123-86-4	5 - 10	150 PPM	200 ppm	150 ppm	200 ppm
N-HEXANE 110-54-3	5 - 10	S- 50 ppm	Not established	50 ppm	Not established
TOLUENE 108-88-3	1 - 5	S- 50 ppm	Not established	100 ppm	150 ppm
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 ppm	100 ppm	150 ppm

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
ACETONE 67-64-1	15 - 40	500 PPM	750 PPM	Not established	Not established
METHYLCYCLOHE XANE 108-87-2	5 - 10	400 ppm	Not established	Not established	Not established
N-HEPTANE 142-82-5	5 - 10	400 ppm	500 ppm	Not established	Not established
N-BUTYL ACETATE 123-86-4	5 - 10	150 ppm	200 ppm	Not established	Not established
N-HEXANE 110-54-3	5 - 10	50 ppm	Not established	Not established	Not established
TOLUENE 108-88-3	1 - 5	50 PPM	Not established	Not established	Not established
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 ppm	Not established	Not established

Refinish Products 19699 Progress Drive Strongsville, OH 44149

Product ID: DTR600 (0808) PRODUCT NAME: FAST REDUCER

Key: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit; IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Aborption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

SPECIFIC GRAVITY:

.751

PHYSICAL STATE:

Liquid

Percent Solids:

.00

Percent Volatile by Volume:

100.000

Not available.

ODOR THRESHOLD:

Not available.

Vapour Pressure:

38.0 mmHg

ODOR/APPEARANCE:

Non-viscous liquid with an odor

characteristic of the ingredients listed in Section 2.

VAPOR DENSITY:

HEAVIER THAN AIR

Evaporation Rate:

715

BOILING POINT OR RANGE:

133-471Degrees F

Freezing Point or Range:

Not Applicable.

Melting Point or Range(°C):

Not Applicable.

Partition coefficient (n-

Not Applicable.

octanol/water): WEIGHT PER GALLON:

6.26 (U.S.) / 7.5 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

This product is normally stable and will not undergo hazardous reactions. CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide - Carbon dioxide

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
ACETONE 67-64-1	15 - 40	1.80 g/kg	20.00 g/kg	76.00 g/L. 4 hr.
METHYLCYCLOHE XANE 108-87-2	5 - 10	4.00 g/kg	Not Available	Not Available
N-BUTYL ACETATE 123-86-4	5 - 10	10.77 g/kg	17.60 g/kg	Not Available
AROMATIC NAPHTHA 64742-95-6	1 - 5	8.40 g/kg	3.48 g/kg	5.20 g/L. 4 hr.
TOLUENE 108-88-3	1 - 5	.64 g/kg	8.39 g/kg	12.50 g/L. 4 hr.
1,2,4-TRIMETHYL BENZENE 95-63-6	0.5-1.5	Not Available	Not Available	18.00 g/L. 4 hr.
XYLENES 1330-20-7	0.1-1.0	4.30 g/kg	1.70 g/kg	21.88 g/L. 4 hr.

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Teratogen - Neurotoxin - Embryotoxin - Brain - Central nervous system -

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility:

No information available.

Biodegradation: Bioaccumulation:

No information available. No Information Available.

PHYSICAL/CHEMICAL

Hydrolysis:

No information available.

Photolysis:

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name:

Paint Related Material

NOS Technical Name:

None

Hazard Class:

None

Subsidiary Class(es): **UN Number:**

UN1263

Packing Group:

USA - RQ Hazardous Substances: Acetone

USA-RQ Hazardous Substance

Acetone>14293.9 Pounds

Threshold Ship Weight:

Marine Pollutant Name:

None

USA Shipments Only - RQ Threshold Ship Weight: This is the total weight of this product that must be shipped to exceed the RQ quantity.

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

Refinish Products 19699 Progress Drive Strongsville, OH 44149

Product ID: DTR600 (0808) PRODUCT NAME: FAST REDUCER

Material/ CAS Number	Percent	CERCLA HS -	SARA EHS-	SARA 313
3.10		RQ (LBS)	TPQ (LBS)	(
ACETONE 67-64-1	15 - 40	5000 lbs	Not Listed	Not Listed
NAPHTHA 64742-89-8	10 - 30	Not Listed	Not Listed	Not Listed
METHYLCYCLOHE XANE 108-87-2	5 - 10	Not Listed	Not Listed	Not Listed
N-HEPTANE 142-82-5	5 - 10	Not Listed	Not Listed	Not Listed
N-BUTYL ACETATE 123-86-4	5 - 10	5000 lbs	Not Listed	Not Listed
N-HEXANE 110-54-3	5 - 10	5000 LBS	Not Listed	Listed
ISOHEXANE 107-83-5	3 - 7	Not Listed	Not Listed	Not Listed
3- METHYLPENTANE 96-14-0	3 - 7	Not Listed	Not Listed	Not Listed
AROMATIC NAPHTHA 64742-95-6	1 - 5	Not Listed	Not Listed	Not Listed
TOLUENE 108-88-3	1 - 5	1000 lbs	Not Listed	Listed
1,2,4-TRIMETHYL BENZENE 95-63-6	0.5-1.5	Not Listed	Not Listed	Listed
XYLENES 1330-20-7	0.1-1.0	100 lbs	Not Listed	Listed

SARA 311/312

Health (acute):

Health (chronic): Fire (flammable):

Pressure: Reactivity: Yes No No

Yes

Yes

WHMIS HAZARD CLASS: - Class B, Division 2 - Class D, Division 2,

Subdivision A - Class D, Division 2, Subdivision B

STATE/PROVINCIAL REGULATIONS

CALIFORNIA PROP. 65: WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Additional Information

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; OSHA-Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 2 30 HMIS Rating: 2*30

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department

REASON FOR REVISION: Section 1 has been updated. Section 4 has been updated. Section 8 has been updated. Date. Edition. Updated MSDS format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

DTR600 000004 (00363892.001)(10/10/05) 051006, 000, 0808



Refinish Products 19699 Progress Drive Strongsville, OH 44149

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

TECHNICAL

(440) 572-2800

INFORMATION:

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

- 4:30 p.m. EST

Product ID:

DTR602 (0808)

PRODUCT NAME:

REDUCER MED TEMP

SYNONYMS:

None

ISSUE DATE:

04/14/2006

EDITION NO.: CHEMICAL

SOLVENT

FAMILY:

EMERGENCY OVERVIEW:

Extremely flammable. Vapors may cause flash fires. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone.CAUSES EYE IRRITATION. MAY CAUSE MODERATE SKIN IRRITATION. MAY BE ABSORBED THROUGH THE SKIN.VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED. VAPOR IRRITATES EYES, NOSE, AND THROAT.HARMFUL OR FATAL IF SWALLOWED.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Material/	Percent	Hazardous
CAS Number		-
TOLUENE	10 - 30	X
108-88-3		
ACETONE	10 - 30	X
67-64-1		
AROMATIC HYDROCARBON	7 - 13	X
64742-94-5		
NAPHTHA	7 - 13	X
64742-89-8		
METHYLCYCLOHEXANE	7 - 13	X
108-87-2		
N-HEPTANE	7 - 13	X
142-82-5		
AROMATIC NAPHTHA	3 - 7	X
64742-95-6		
1,2,4-TRIMETHYL BENZENE	1 - 5	X
95-63-6		
NAPHTHALENE	0.5-1.5	X
91-20-3		
XYLENES	0.1-1.0	X
1330-20-7		

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause moderate skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

May be absorbed through the skin.

INHALATION:

Vapor and/or spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat.

INGESTION:

Harmful or fatal if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Naphthalene has caused nasal and lung tumors in laboratory animals exposed via inhalation. Absorption of naphthalene into the body by inhalation, ingestion or through the skin can lead to the formation of methemoglobin, thereby imparting a bluish tint to the skin and mucous membranes (cyanosis). Onset of cyanosis may be delayed. Exposure to naphthalene vapors at 15 ppm or above can cause eye irritation, corneal injury, optical neuritis and cataracts. Ingestion of naphthalene can cause hemolytic anemia and hemoglobinuria, especially in glucose-6-phosphate dehydrogenase deficient individuals. This product contains toluene. Toluene inhalation in animals (greater than 1500 ppm) and intentional inhalation of toluene-containing products by humans (e.g. glue) has caused adverse fetal development effects. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo and fetus. These effects were often at levels toxic to the mother.

The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

Product ID: DTR602 (0808)
PRODUCT NAME: REDUCER MED TEMP

INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 1 Degrees F (-17 Degrees C)

FLASHPOINT TEST METHOD: Pensky-Martens Closed Cup

UEL: Not Available.

LEL: 1.6

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IB flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE: Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

STORAGE

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IB flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT

EYES:

Wear chemical-type splash goggles when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors. **SKIN/GLOVES:**

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: neoprene rubber or nitrile rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes. RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS
If Threshold Limit Values (TLVs) have been established by ACGIH,
OSHA, Ontario or PPG, they will be listed below. These limits are
intended for use in the practice of industrial hygiene as guidelines or
recommendations in the control of potential workplace health hazards.
These limits are not a relative index of toxicity and should not be used by
anyone without industrial hygiene training.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
TOLUENE 108-88-3	10 - 30	S- 50 ppm	Not established	100 ppm	150 ppm
ACETONE 67-64-1	10 - 30	500 ppm	750 ppm	750 ppm	1000 ppm
METHYLCYCLOHE XANE 108-87-2	7 - 13	400 ppm	Not established	400 ppm	Not established
N-HEPTANE 142-82-5	7 - 13	400 ppm	500 ppm	400 ppm	500 ppm
NAPHTHALENE 91-20-3	0.5-1.5	S- 10 ppm	15 ppm	10 ppm	15 ppm
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 ppm	100 ppm	150 ppm

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
TOLUENE 108-88-3	10 - 30	50 PPM	Not established	Not established	Not established
ACETONE 67-64-1	10 - 30	500 PPM	750 PPM	Not established	Not established
METHYLCYCLOHE XANE 108-87-2	7 - 13	400 ppm	Not established	Not established	Not established
N-HEPTANE 142-82-5	7 - 13	400 ppm	500 ppm	Not established	Not established
NAPHTHALENE 91-20-3	0.5-1.5	10 ppm	15 ppm	Not established	Not established
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 ppm	Not established	Not established

Refinish Products 19699 Progress Drive Strongsville, OH 44149

Product ID: DTR602 (0808) PRODUCT NAME: REDUCER MED TEMP

Key: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit; IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Aborption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL	PROPERTIES
---------------------------------	------------

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

SPECIFIC GRAVITY:

.812

PHYSICAL STATE:

Liquid

Percent Solids:

.00

Percent Volatile by Volume:

100.000

pH:

Not available.

ODOR THRESHOLD: Vapour Pressure:

Not available.

ODOR/APPEARANCE:

64.1 mmHg Non-viscous liquid with an odor

characteristic of the ingredients

listed in Section 2.

VAPOR DENSITY:

HEAVIER THAN AIR

Evaporation Rate: BOILING POINT OR RANGE: 317

133- 471Degrees F

Freezing Point or Range:

Not Applicable.

Melting Point or Range(°C):

Not Applicable.

Partition coefficient (n-

octanol/water):

Not Applicable.

WEIGHT PER GALLON:

6.77 (U.S.) / 8.1 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

This product is normally stable and will not undergo hazardous reactions. CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide - Carbon dioxide

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
TOLUENE 108-88-3	10 - 30	.64 g/kg	8.39 g/kg	12.50 g/L. 4 hr.
ACETONE 67-64-1	10 - 30	1.80 g/kg	20.00 g/kg	76.00 g/L. 4 hr.
AROMATIC HYDROCARBON 64742-94-5	7 - 13	3.20 g/kg	1.69 g/kg	.59 g/L. 4 hr.
METHYLCYCLOHE XANE 108-87-2	7 - 13	4.00 g/kg	Not Available	Not Available
AROMATIC NAPHTHA 64742-95-6	3 - 7	8.40 g/kg	3.48 g/kg	5.20 g/L. 4 hr.
1,2,4-TRIMETHYL BENZENE 95-63-6	1 - 5	Not Available	Not Available	18.00 g/L. 4 hr.
NAPHTHALENE 91-20-3	0.5-1.5	.49 g/kg	20.00 g/kg	Not Available
XYLENES 1330-20-7	0.1-1.0	4.30 g/kg	1.70 g/kg	21.88 g/L. 4 hr.

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Teratogen - Embryotoxin - Blood oxygen capacity - Blood - Carcinogen -Cataract - Eye - Retina - Brain - Central nervous system - Lung

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility:

No information available.

Biodegradation:

No information available.

Bioaccumulation:

No Information Available.

PHYSICAL/CHEMICAL

Hydrolysis:

No information available.

Photolysis:

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name:

Paint Related Material

NOS Technical Name:

None

Hazard Class:

Subsidiary Class(es):

None

UN Number:

UN1263

Refinish Products 19699 Progress Drive Strongsville, OH 44149

Product ID: DTR602 (0808)
PRODUCT NAME: REDUCER MED TEMP

Packing Group:

H

USA - RQ Hazardous Substances: Toluene, Naphthalene, Xylenes USA-RQ Hazardous Substance Toluene>3511.27 Pounds,

Threshold Ship Weight:

Toluene>3511.27 Pounds, Naphthalene>8473.73 Pounds, Xylenes>31246.88 Pounds

Marine Pollutant Name:

None

USA Shipments Only - RQ Threshold Ship Weight: This is the total weight of this product that must be shipped to exceed the RQ quantity.

SECTION 15	REGULATORY	INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

Material/	Percent			
CAS Number		CERCLA HS -	SARA EHS-	SARA 313
		RQ (LBS)	TPQ (LBS)	
TOLUENE	10 - 30	1000 lbs	Not Listed	Listed
108-88-3		A	15 6565 1-17 00 100 100 100 100 100 100 100 100 10	
ACETONE	10 - 30	5000 lbs	Not Listed	Not Listed
67-64-1			\ \	
AROMATIC	7 - 13	Not Listed	Not Listed	Not Listed
HYDROCARBON				
64742-94-5		1		
NAPHTHA	7 - 13	Not Listed	Not Listed	Not Listed
64742-89-8		1.7.30001.73.1777.0300		
METHYLCYCLOHE	7 - 13	Not Listed	Not Listed	Not Listed
XANE			1	
108-87-2				
N-HEPTANE	7 - 13	Not Listed	Not Listed	Not Listed
142-82-5				
AROMATIC	3 - 7	Not Listed	Not Listed	Not Listed
NAPHTHA				
64742-95-6				
1,2,4-TRIMETHYL	1 - 5	Not Listed	Not Listed	Listed
BENZENE				
95-63-6				
NAPHTHALENE	0.5-1.5	100 lbs	Not Listed	Listed
91-20-3				
XYLENES	0.1-1.0	100 lbs	Not Listed	Listed
1330-20-7				

SARA 311/312

Health (acute):

Yes Yes

Health (chronic): Fire (flammable):

Yes

Pressure:

No No

Reactivity: N

WHMIS HAZARD CLASS: - Class B, Division 2 - Class D, Division 2,

Subdivision A - Class D, Division 1, Subdivision B

STATE/PROVINCIAL REGULATIONS

<u>CALIFORNIA PROP. 65:</u> WARNING: This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

Additional Information

Material/ CAS Number	Percent	IARC Group 1(Kno wn Human Carc.)	IARC Group 2A (Proba ble Carc.)	IARC 2B (Suspec ted Carc.)	ACGIH Carc.	NTP Known Carc.	OSHA Carc.
NAPHTHALENE 91-20-3	0.5-1.5	N	N	Y	N	N	Υ

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; OSHA-Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 2 30 HMIS Rating: 2*30

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department

REASON FOR REVISION: Section 11 has been updated. Section 15 has been updated. Section 1 has been updated. Section 3 has been updated. Section 16 has been updated. Date. Edition.

Updated MSDS

format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

DTR602 000002 (00363895.001)(10/10/05)

051006, 000, 0808

*** END OF MSDS ***



Refinish Products 19699 Progress Drive Strongsville, OH 44149

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

TECHNICAL

(440) 572-2800

INFORMATION:

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

- 4:30 p.m. EST

Product ID:

DXR80 (0808)

PRODUCT NAME:

ULTRA ÜRETHANE HARDENER

SYNONYMS: ISSUE DATE:

05/02/2006

EDITION NO.:

05/02/2000

CHEMICAL

ISOCYANATE

FAMILY:

EMERGENCY OVERVIEW:

Combustible. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke.CAUSES SEVERE EYE IRRITATION.MAY CAUSE MODERATE SKIN IRRITATION.MAY BE ABSORBED THROUGH THE SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE AN ALLERGIC SKIN REACTION.VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED. MAY CAUSE IRRITATION AND/OR ALLERGIC RESPIRATORY REACTION IN LUNGS. VAPOR IRRITATES EYES, NOSE, AND THROAT.HARMFUL IF SWALLOWED.STABLE - HAZARDOUS REACTIONS POSSIBLE AT EXTREMELY HIGH TEMPERATURES/PRESSURES.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Material/	Percent	Hazardous
CAS Number	·	
HEXANE-1,6-DI-ISOCYANATE	60-100	X
POLYMER		
28182-81-2		
1-METHOXY-2-PROPYL	5 - 10	X
ACETATE		
108-65-6		
N-BUTYL ACETATE	1 - 5	X
123-86-4		
AROMATIC NAPHTHA	1 - 5	X
64742-95-6		
1,2,4-TRIMETHYL BENZENE	0.5-1.5	X
95-63-6		
HEXAMETHYLENE-DI-	0.1-1.0	X
ISOCYANATE		
822-06-0		
2-METHOXY-1-PROPYL	0.1-1.0	X
ACETATE		
70657-70-4		
XYLENES	0.1-1.0	X
1330-20-7		

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes severe eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause moderate skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

May be absorbed through the skin. Prolonged or repeated contact may cause an allergic skin reaction.

INHALATION:

Vapor and/or spray mist may be harmful if inhaled. May cause irritation and/or allergic respiratory reaction in lungs. Vapor irritates eyes, nose, and throat.

INGESTION:

Harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Do not use if you have chronic (long-term) lung or breathing problems, or if you have ever had a reaction to isocyanates.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Prolonged inhalation of an ingredient(s) in this product may cause lung sensitivity leading to pneumonitis. This product contains isocyanates. Inhalation may cause a burning sensation of the nose, throat and lungs. Allergic respiratory reactions to these materials are characterized by asthma-like symptoms such as chest tightness, wheezing, shortness of breath and coughing. These symptoms may follow repeated exposure or a single massive exposure and may be delayed. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo and fetus. These effects were often at levels toxic to the mother.

The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available.

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

Product ID: DXR80 (0808)
PRODUCT NAME: ULTRA URETHANE HARDENER

INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 113 Degrees F (45 Degrees C)

FLASHPOINT TEST METHOD: Pensky-Martens Closed Cup

UEL: Not Available.

LEL: 1.4

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class II combustible liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE: Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches. STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class II combustible liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION | ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT

EYES:

Wear chemical-type splash goggles and full face shield when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

SKIN/GLOVES:

Wear protective clothing sufficient to cover exposed skin surfaces. For applications where skin contact is likely and impermeable clothing is necessary, select clothing constructed of: neoprene rubber or nitrile rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. The decision whether to clean or discard contaminated clothing should be based on the chemicals contaminating them. Some chemicals can cause skin irritation, sensitization or other health effects if the cleaning process does not remove all traces of them. Consult a safety professional to determine whether clothing contaminated with this product can be safely cleaned and reused.

RESPIRATOR:

Where vapors or overspray are present, use a NIOSH approved, positive-pressure, air- supplied respirator for the entire time of spraying and until all vapors and mists are gone. Follow the respirator manufacturer's directions for respirator use. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS
If Threshold Limit Values (TLVs) have been established by ACGIH,
OSHA, Ontario or PPG, they will be listed below. These limits are
intended for use in the practice of industrial hygiene as guidelines or
recommendations in the control of potential workplace health hazards.
These limits are not a relative index of toxicity and should not be used by
anyone without industrial hygiene training.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
N-BUTYL ACETATE 123-86-4	1 - 5	150 PPM	200 ppm	150 ppm	200 ppm
HEXAMETHYLENE- DI-ISOCYANATE 822-06-0	0.1-1.0	0.005 ppm	Not established	Not established	Not established
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 ppm	100 ppm	150 ppm

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
HEXANE-1,6-DI- ISOCYANATE POLYMER 28182-81-2	60- 100	Not established	Not established	0.5 mg/m ³	1 mg/m ³
1-METHOXY-2- PROPYL ACETATE 108-65-6	5 - 10	50 PPM	Not established	100 ppm	Not established
N-BUTYL ACETATE 123-86-4	1 - 5	150 ppm	200 ppm	Not established	Not established
HEXAMETHYLENE- DI-ISOCYANATE 822-06-0	0.1-1.0	C- 0.02 PPM	Not established	Not established	Not established
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 ppm	Not established	Not established

Product ID: DXR80 (0808) PRODUCT NAME: ULTRA URETHANE HARDENER

Key: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit; IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Aborption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES
(FORMULA VALUES, NOT SALES SPECIFICATIONS)

SPECIFIC GRAVITY:

1.110

PHYSICAL STATE:

Liquid

Percent Solids:

83.39

Percent Volatile by Volume:

20.170

pH:

Not available.

ODOR THRESHOLD: Vapour Pressure:

Not available. 4.7 mmHg

ODOR/APPEARANCE:

Viscous liquid with an odor

characteristic of the solvents listed in

Section 2.

VAPOR DENSITY:

HEAVIER THAN AIR

Evaporation Rate:

BOILING POINT OR RANGE:

255-351Degrees F

Freezing Point or Range:

Not Applicable.

Melting Point or Range(°C):

Not Applicable.

Partition coefficient (n-

Not Applicable.

octanol/water): WEIGHT PER GALLON:

9.25 (U.S.) / 11.1 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

This product is normally stable but may undergo hazardous reactions at extremely high temperatures and pressures.

CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents. Avoid water and alcohols. HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide - Carbon dioxide - Hydrogen cyanide - Lower molecular weight polymer fractions - Traces of isocyanate - Oxides of nitrogen

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
1-METHOXY-2- PROPYL ACETATE 108-65-6	5 - 10	8.53 g/kg	5.00 g/kg	Not Available
N-BUTYL ACETATE 123-86-4	1 - 5	10.77 g/kg	17.60 g/kg	Not Available
AROMATIC NAPHTHA 64742-95-6	1 - 5	8.40 g/kg	3.48 g/kg	5.20 g/L. 4 hr.
1,2,4-TRIMETHYL BENZENE 95-63-6	0.5-1.5	Not Available	Not Available	18.00 g/L. 4 hr.
HEXAMETHYLENE- DI-ISOCYANATE 822-06-0	0.1-1.0	.71 g/kg	.57 g/kg	.15 g/L. 4 hr.
XYLENES 1330-20-7	0.1-1.0	4.30 g/kg	1.70 g/kg	21.88 g/L. 4 hr.

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Embryotoxin - Reproductive - Respiratory sensitizer - Brain - Central nervous system - Lung

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

Material/ CAS Number	Percent	Ingredient Specific Animal Data:
2- METHOXY- 1-PROPYL ACETATE 70657-70-4	0.1-1.0	Possible reproductive hazard. An ingredient(s) in this product has adversely affected reproductive tissues and fetal development in test animals.

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility:

No information available.

Biodegradation: Bioaccumulation:

PHYSICAL/CHEMICAL

No information available. No Information Available.

Hydrolysis:

No information available.

Photolysis:

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name:

Paint

Refinish Products 19699 Progress Drive Strongsville, OH 44149

Product ID: DXR80 (0808) PRODUCT NAME: ULTRA URETHANE HARDENER

NOS Technical Name:

None

Hazard Class:

Subsidiary Class(es):

None

UN Number:

UN1263

Packing Group:

Ш

USA - RQ Hazardous Substances: None **USA-RQ Hazardous Substance**

Threshold Ship Weight:

Marine Pollutant Name:

None

USA and Canada Shipments Only- Combustible Liquid Exception: Nonbulk (<=119 Gallons/450 L) ground shipments can be reclassified to "not regulated" for transportation. Bulk shipments - USA Only (> 119 Gallons/450 L) can be reclassified to a Combustible Liquid.

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

Material/ CAS Number	Percent	CERCLA HS -	SARA EHS-	SARA 313
		RQ (LBS)	TPQ (LBS)	
HEXANE-1,6-DI- ISOCYANATE POLYMER 28182-81-2	60- 100	Not Listed	Not Listed	Not Listed
1-METHOXY-2- PROPYL ACETATE 108-65-6	5 - 10	Not Listed	Not Listed	Not Listed
N-BUTYL ACETATE 123-86-4	1 - 5	5000 lbs	Not Listed	Not Listed
AROMATIC NAPHTHA 64742-95-6	1 - 5	Not Listed	Not Listed	Not Listed
1,2,4-TRIMETHYL BENZENE 95-63-6	0.5-1.5	Not Listed	Not Listed	Listed
HEXAMETHYLENE- DI-ISOCYANATE 822-06-0	0.1-1.0	100 LBS	Not Listed	Not Listed
2-METHOXY-1- PROPYL ACETATE 70657-70-4	0.1-1.0	Not Listed	Not Listed	Not Listed
XYLENES 1330-20-7	0.1-1.0	100 lbs	Not Listed	Listed

SARA 311/312

Health (acute):

Yes

Health (chronic):

Yes Yes

Fire (flammable): Pressure:

No

Reactivity

No

WHMIS HAZARD CLASS: - Class B, Division 3 - Class D, Division 2, Subdivision A - Class D, Division 2, Subdivision B

STATE/PROVINCIAL REGULATIONS

Additional Information

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 3 21 HMIS Rating: 3*21

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department REASON FOR REVISION: Date. Edition. Updated MSDS format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

000002 (00252935.001)(01/21/03) DXR80 020131, 000, 0808

*** END OF MSDS ***



Refinish Products 19699 Progress Drive Strongsville, OH 44149

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

TECHNICAL

(440) 572-2800

INFORMATION:

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

- 4:30 p.m. EST

Product ID:

ESH200 (0808)

PRODUCT NAME:

SINGLE STAGE HARDENER

SYNONYMS:

None

ISSUE DATE:

04/14/2006

EDITION NO.: CHEMICAL

ISOCYANATE

FAMILY:

EMERGENCY OVERVIEW:

Combustible. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke.CAUSES SEVERE EYE IRRITATION. MAY CAUSE MODERATE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE AN ALLERGIC SKIN REACTION.VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED. MAY CAUSE IRRITATION AND/OR ALLERGIC RESPIRATORY REACTION IN LUNGS. VAPOR IRRITATES EYES, NOSE, AND THROAT.HARMFUL IF SWALLOWED.STABLE - HAZARDOUS REACTIONS POSSIBLE AT EXTREMELY HIGH TEMPERATURES/PRESSURES.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Material/	Percent	Hazardous
CAS Number		
HEXANE-1,6-DI-ISOCYANATE	60-100	X
POLYMER		
28182-81-2		
HEXAMETHYLENE-DI-	0.1-1.0	X
ISOCYANATE		
822-06-0		

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes severe eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT

May cause moderate skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

Skin absorption not expected to occur. Prolonged or repeated contact may cause an allergic skin reaction.

INHALATION:

Vapor and/or spray mist may be harmful if inhaled. May cause irritation and/or allergic respiratory reaction in lungs. Vapor irritates eyes, nose, and throat.

INGESTION:

Harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Do not use if you have chronic (long-term) lung or breathing problems, or if you have ever had a reaction to isocyanates.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Prolonged inhalation of an ingredient(s) in this product may cause lung sensitivity leading to pneumonitis. This product contains isocyanates. Inhalation may cause a burning sensation of the nose, throat and lungs. Allergic respiratory reactions to these materials are characterized by asthma-like symptoms such as chest tightness, wheezing, shortness of breath and coughing. These symptoms may follow repeated exposure or a single massive exposure and may be delayed.

The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available.

EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 168 Degrees F (76 Degrees C)

FLASHPOINT TEST METHOD:

Pensky-Martens Closed Cup

UEL: Not Available.

LEL: Not Available.

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IIIA combustible liquid fires.

PROTECTION OF FIREFIGHTERS:

Water spray may be ineffective. Water spray may be used to cool closed containers that are exposed to extreme heat. If water is used, fog nozzles are preferable. Firefighters should wear self-contained breathing apparatus and full protective clothing.

Product ID: ESH200 (0808) PRODUCT NAME: SINGLE STAGE HARDENER

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IIIA combustible liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT

Wear chemical-type splash goggles and full face shield when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

SKIN/GLOVES:

Wear protective clothing sufficient to cover exposed skin surfaces. For applications where skin contact is likely and impermeable clothing is necessary, select clothing constructed of: butyl rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. The decision whether to clean or discard contaminated clothing should be based on the chemicals contaminating them. Some chemicals can cause skin irritation, sensitization or other health effects if the cleaning process does not remove all traces of them. Consult a safety professional to determine whether clothing contaminated with this product can be safely cleaned and reused.

RESPIRATOR:

Where vapors or overspray are present, use a NIOSH approved, positive-pressure, air- supplied respirator for the entire time of spraying and until all vapors and mists are gone. Follow the respirator manufacturer's directions for respirator use. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS

If Threshold Limit Values (TLVs) have been established by ACGIH, OSHA, Ontario or PPG, they will be listed below. These limits are intended for use in the practice of industrial hygiene as guidelines or recommendations in the control of potential workplace health hazards. These limits are not a relative index of toxicity and should not be used by anyone without industrial hygiene training.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
HEXAMETHYLENE-	0.1-1.0	0.005 ppm		Not	Not
DI-ISOCYANATE 822-06-0			established	established	established

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
HEXANE-1,6-DI- ISOCYANATE POLYMER 28182-81-2	60- 100	Not established	Not established	0.5 mg/m ³	1 mg/m³
HEXAMETHYLENE- DI-ISOCYANATE 822-06-0	0.1-1.0	C- 0.02 PPM	Not established	Not established	Not established

Key: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit; IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Aborption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

SPECIFIC GRAVITY: 1.142 PHYSICAL STATE: Liquid

Percent Solids: 89.03 Percent Volatile by Volume: 13.200

pH: Not available.
ODOR THRESHOLD: Not available.

ODOR THRESHOLD:

Vapour Pressure:

ODOR/APPEARANCE:

Not available.

7 mmHg

Viscous liquid with an odor

characteristic of the solvents listed in Section 2.

VAPOR DENSITY: HEAVIER THAN AIR

Evaporation Rate: 12

BOILING POINT OR RANGE: 336- 338Degrees F Freezing Point or Range: Not Applicable. Not Applicable. Partition coefficient (n- Not Applicable.

octanol/water):

WEIGHT PER GALLON: 9.52 (U.S.) / 11.4 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:

This product is normally stable but may undergo hazardous reactions at extremely high temperatures and pressures.

CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents. Avoid water and alcohols.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide - Carbon dioxide - Traces of isocyanate - Oxides of

Product ID: ESH200 (0808) PRODUCT NAME: SINGLE STAGE HARDENER

nitrogen - Hydrogen cyanide - Lower molecular weight polymer fractions

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
HEXAMETHYLENE- DI-ISOCYANATE	0.1-1.0	.71 g/kg	.57 g/kg	.15 g/L. 4 hr.
822-06-0				

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Respiratory sensitizer - Lung

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility:

No information available.

Biodegradation:

No information available.

Bioaccumulation:

No Information Available.

PHYSICAL/CHEMICAL

Hydrolysis: Photolysis: No information available.

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name:

NOT AVAILABLE

NOS Technical Name:

NOT AVAILABLE

Hazard Class:

N.A.

Subsidiary Class(es):

N.A.

UN Number:

N.A.

Packing Group:

N.A.

USA - RQ Hazardous Substances: NOT AVAILABLE

USA-RQ Hazardous Substance

NOT AVAILABLE

Threshold Ship Weight:

Marine Pollutant Name:

NOT AVAILABLE

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

<u>Material/</u> <u>CAS Number</u>	Percent	CERCLA HS - RQ (LBS)	SARA EHS- TPQ (LBS)	SARA 313
HEXANE-1,6-DI- ISOCYANATE POLYMER 28182-81-2	60- 100	Not Listed	Not Listed	Not Listed
HEXAMETHYLENE- DI-ISOCYANATE 822-06-0	0.1-1.0	100 LBS	Not Listed	Not Listed

SARA 311/312

Health (acute): Health (chronic):

Yes Fire (flammable): Yes No

Pressure: Reactivity: No

WHMIS HAZARD CLASS: - Class B, Division 3 - Class D, Division 2, Subdivision A - Class D, Division 2, Subdivision B

Yes

STATE/PROVINCIAL REGULATIONS Additional Information

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 3 21 HMIS Rating: 3*21

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department

REASON FOR REVISION: Section 5 has been updated. Section 9 has been updated.

Updated MSDS

format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

ESH200 000003 (00327598.001)(02/02/05)

050201, 000, 0808



PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

TECHNICAL (7

(740) 363-9610 (DELAWARE, OH) 8:00 a.m. -

INFORMATION:

5:00 p.m. EST

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

- 4:30 p.m. EST

Product ID:

ESSS9000 (0808)

PRODUCT NAME: SYNONYMS:

BLACK None

ISSUE DATE:

08/15/2006

EDITION NO.: CHEMICAL

Acrylic Polyester

FAMILY:

EMERGENCY OVERVIEW:

Extremely flammable. Vapors may cause flash fires. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone.CAUSES SEVERE EYE IRRITATION. MAY CAUSE MODERATE SKIN IRRITATION. MAY BE ABSORBED THROUGH THE SKIN.VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED. VAPOR IRRITATES EYES, NOSE, AND THROAT.HARMFUL IF SWALLOWED.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

<u>Material/</u>	Percent	<u>Hazardous</u>
CAS Number		
ACETONE	10 - 30	X
67-64-1		
N-BUTYL ACETATE	7 - 13	X
123-86-4		
METHYL (N-AMYL) KETONE	5 - 10	X
110-43-0		
1-METHOXY-2-PROPYL	3 - 7	X
ACETATE		
108-65-6		
CARBON BLACK	0.5-1.5	X
1333-86-4		
2-METHOXY-1-PROPYL	0.1-1.0	X
ACETATE		
70657-70-4		

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes severe eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause moderate skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

May be absorbed through the skin.

INHALATION:

Vapor and/or spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat.

INGESTION:

Harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. An ingredient in this product has caused fetal toxicity in experimental animals. The significance of these findings for humans is unknown. The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available.

EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given. Never give anything by mouth to an unconscious person. Contact a poison control center, emergency room or physician right away as further treatment may be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 14 Degrees F (-10 Degrees C)

FLASHPOINT TEST METHOD: Pensky-Martens Closed Cup

UEL: Not Available.

LEL: 2.5

AUTOIGNITION TEMPERATURE:

Not Available.

Product ID: ESSS9000 (0808) PRODUCT NAME: BLACK

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IB flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE: Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IB flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION **ENGINEERING CONTROLS:**

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT

EYES:

Wear chemical-type splash goggles and full face shield when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

SKIN/GLOVES:

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: neoprene rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes.

RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positivepressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting. GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS

If Threshold Limit Values (TLVs) have been established by ACGIH, OSHA, Ontario or PPG, they will be listed below. These limits are intended for use in the practice of industrial hygiene as guidelines or recommendations in the control of potential workplace health hazards. These limits are not a relative index of toxicity and should not be used by anyone without industrial hygiene training.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
ACETONE 67-64-1	10 - 30	500 ppm	750 ppm	750 ppm	1000 ppm
N-BUTYL ACETATE 123-86-4	7 - 13	150 PPM	200 ppm	150 ppm	200 ppm
METHYL (N-AMYL) KETONE 110-43-0	5 - 10	50 ppm	Not established	100 ppm	Not established
CARBON BLACK 1333-86-4	0.5-1.5	3.5 mg/m ³	Not established	3.5 mg/m ³	Not established

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
ACETONE 67-64-1	10 - 30	500 PPM	750 PPM	Not established	Not established
N-BUTYL ACETATE 123-86-4	7 - 13	150 ppm	200 ppm	Not established	Not established
METHYL (N-AMYL) KETONE 110-43-0	5 - 10	25 ppm	Not established	Not established	Not established
1-METHOXY-2- PROPYL ACETATE 108-65-6	3 - 7	50 PPM	Not established	100 ppm	Not established
CARBON BLACK 1333-86-4	0.5-1.5	3.5 mg/m ³	Not established	Not established	Not established

Key: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit (1989 Vacated values); IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Absorption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

SPECIFIC GRAVITY:

PHYSICAL STATE:

Liquid 54.91

Percent Solids:

Percent Volatile by Volume:

52.380 Not available.

pH:

Not available.

ODOR THRESHOLD: Vapour Pressure:

9.3 mmHg

ODOR/APPEARANCE:

Viscous liquid with an odor

characteristic of the solvents listed in

Section 2.

PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

Product ID: ESSS9000 (0808) PRODUCT NAME: BLACK

VAPOR DENSITY:

HEAVIER THAN AIR

Evaporation Rate:

507

BOILING POINT OR RANGE:

133 - 351Degrees F

Freezing Point or Range:

Not Applicable.

Melting Point or Range(°C): Partition coefficient (nNot Applicable. Not Applicable.

octanol/water):

IOU

WEIGHT PER GALLON:

8.09 (U.S.) / 9.7 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:

This product is normally stable and will not undergo hazardous reactions. CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide - Carbon dioxide - Lower molecular weight polymer fractions

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
ACETONE 67-64-1	10 - 30	1.80 g/kg	20.00 g/kg	76.00 g/L. 4 hr.
N-BUTYL ACETATE 123-86-4	7 - 13	10.77 g/kg	17.60 g/kg	Not Available
METHYL (N-AMYL) KETONE 110-43-0	5 - 10	1.60 g/kg	10.21 g/kg	Not Available
1-METHOXY-2- PROPYL ACETATE 108-65-6	3 - 7	8.53 g/kg	5.00 g/kg	Not Available
CARBON BLACK 1333-86-4	0.5-1.5	15.40 g/kg	3.00 g/kg	Not Available

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Carcinogen - Embryotoxin - Reproductive - Fetotoxin - Brain - Central nervous system - Lung

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

Material/ CAS Number	Percent	Ingredient Specific Animal Data:
CARBON BLACK 1333-86-4	0.5-1.5	This product contains carbon black which has been rated an IARC 2B carcinogen due to animal data.
2- METHOXY- 1-PROPYL ACETATE 70657-70-4	0.1-1.0	Possible reproductive hazard. An ingredient(s) in this product has adversely affected reproductive tissues and fetal development in test animals.

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility:

No information available.

Biodegradation:

No information available.

Bioaccumulation:

No Information Available.

PHYSICAL/CHEMICAL

Hydrolysis:

No information available.

Photolysis:

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name:

Paint

NOS Technical Name:

None

Hazard Class: Subsidiary Class(es):

None

UN Number:

UN1263

Packing Group:

USA - RQ Hazardous Substances: Acetone

USA-RQ Hazardous Substance

Acetone>27412.31 Pounds

Threshold Ship Weight:

Marine Pollutant Name: None

USA Shipments Only - RQ Threshold Ship Weight: This is the total weight of this product that must be shipped to exceed the RQ quantity.

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

Product ID: ESSS9000 (0808) PRODUCT NAME: BLACK

Material/ CAS Number	Percent	CERCLA HS - RQ (LBS)	SARA EHS- TPQ (LBS)	SARA 313
ACETONE 67-64-1	10 - 30	5000 lbs	Not Listed	Not Listed
N-BUTYL ACETATE 123-86-4	7 - 13	5000 lbs	Not Listed	Not Listed
METHYL (N-AMYL) KETONE 110-43-0	5 - 10	Not Listed	Not Listed	Not Listed
1-METHOXY-2- PROPYL ACETATE 108-65-6	3 - 7	Not Listed	Not Listed	Not Listed
CARBON BLACK 1333-86-4	0.5-1.5	Not Listed	Not Listed	Not Listed
2-METHOXY-1- PROPYL ACETATE 70657-70-4	0.1-1.0	Not Listed	Not Listed	Not Listed

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

ESSS9000 000002 (00420470.001)(08/14/06) 060814, 000, 0808

*** END OF MSDS ***

SARA 311/312

Health (acute): Health (chronic): Fire (flammable):

Yes Yes Yes No

Pressure: Reactivity: No No

WHMIS HAZARD CLASS: - Class B, Division 2 - Class D, Division 2, Subdivision A - Class D, Division 2, Subdivision B

STATE/PROVINCIAL REGULATIONS

<u>CALIFORNIA PROP. 65:</u> WARNING: This product contains a chemical known to the State of California to cause cancer.

Additional Information

Material/ CAS Number	Percent	IARC Group 1(Kno wn Human Carc.)	IARC Group 2A (Proba ble Carc.)	2B (Suspec	ACGIH Carc.	NTP Known Carc.	OSHA Carc.
CARBON BLACK 1333-86-4	0.5-1.5	N	N	Υ	Ν	N	Υ

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; OSHA-Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 2 30 HMIS Rating: 2*30

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association:

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department REASON FOR REVISION: Section 11 has been updated. Section 3 has been updated. Date. Edition. Updated MSDS format.

MATERIAL SAFETY DATA SHEET



SECTION 1 - PRODUCT AND COMPANY INFORMATION

PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

0332-03009090 (CIIII

TECHNICAL

(740) 363-9610 (DELAWARE, OH) 8:00 a.m. -

INFORMATION: 5:00 p.m. EST

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

- 4:30 p.m. EST

Product ID:

ESSS903653 (0808)

PRODUCT NAME:

FACTORY PACK WHITE

SYNONYMS:

None

ISSUE DATE:

04/14/2006

EDITION NO.:

5

CHEMICAL

Acrylic Polyester

FAMILY:

EMERGENCY OVERVIEW:

Flammable. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone. CAUSES SEVERE EYE IRRITATION. MAY CAUSE MODERATE SKIN IRRITATION. MAY BE ABSORBED THROUGH THE SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE AN ALLERGIC SKIN REACTION. VAPOR AND/OR SPRAY MIST MAY BE HARMFUL IF INHALED. VAPOR IRRITATES EYES, NOSE, AND THROAT. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. HARMFUL IF SWALLOWED. DRIED FILM OF THIS PRODUCT MAY BE HARMFUL IF CHEWED OR SWALLOWED.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Maria P			
Material/	Percent	<u>Hazardous</u>	
CAS Number			
TITANIUM DIOXIDE	10 - 30	X	
13463-67-7			
1-METHOXY-2-PROPYL	5 - 10	X	
ACETATE			
108-65-6			
N-BUTYL ACETATE	3 - 7	X	
123-86-4			
ACETONE	3 - 7	X	
67-64-1			
BARIUM SULFATE	1 - 5	X	
7727-43-7			
METHYL (N-AMYL) KETONE	1 - 5	X	
110-43-0			
AROMATIC NAPHTHA	1 - 5	X	
64742-95-6			
ZINC SULFIDE	1 - 5	X	
1314-98-3			
PARACHLOROBENZOTRIFLUO	1 - 5	X	
RIDE			
98-56-6			
XYLENES	0.1-1.0	X	
1330-20-7			
2-METHOXY-1-PROPYL	0.1-1.0	X	
ACETATE			
70657-70-4			
(As Zinc Cmpnds)	*	X	See Sections 8
1314-98-3			and 15 for information.
			iniomiation.

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes severe eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause moderate skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

May be absorbed through the skin. Prolonged or repeated contact may cause an allergic skin reaction.

INHALATION:

Vapor and/or spray mist may be harmful if inhaled. Vapor irritates eyes, nose, and throat. Sanding and grinding dusts may be harmful if inhaled. INGESTION:

Harmful if swallowed. Dried film of this product may be harmful if chewed or swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Prolonged exposure to an ingredient(s) in this product may cause kidney and/or liver damage. High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo and fetus. These effects were often at levels toxic to the mother.

Product ID: ESSS903653 (0808)
PRODUCT NAME: FACTORY PACK WHITE

The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact a poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

INGESTION

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given if person is fully conscious. Never give anything by mouth to an unconscious or convulsing person. Do Not induce vomiting. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 34 Degrees F (1 Degrees C)

FLASHPOINT TEST METHOD:

Pensky-Martens Closed Cup

UEL: Not Available.

LEL: 2.4

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IB flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE: Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IB flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT

EYES:

Wear chemical-type splash goggles and full face shield when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

SKIN/GLOVES:

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: neoprene rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes. RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS
If Threshold Limit Values (TLVs) have been established by ACGIH,
OSHA, Ontario or PPG, they will be listed below. These limits are
intended for use in the practice of industrial hygiene as guidelines or
recommendations in the control of potential workplace health hazards.
These limits are not a relative index of toxicity and should not be used by
anyone without industrial hygiene training.

Product ID: ESSS903653 (0808) PRODUCT NAME: FACTORY PACK WHITE

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
TITANIUM DIOXIDE 13463-67-7	10 - 30	10 mg/m ³	Not established	10 mg/m ³	Not established
N-BUTYL ACETATE 123-86-4	3 - 7	150 PPM	200 ppm	150 ppm	200 ppm
ACETONE 67-64-1	3 - 7	500 ppm	750 ppm	750 ppm	1000 ppm
BARIUM SULFATE 7727-43-7	1 - 5	10 mg/m ³	Not established	R- 5 mg/m ³	Not established
METHYL (N-AMYL) KETONE 110-43-0	1 - 5	50 ppm	Not established	100 ppm	Not established
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 ppm	100 ppm	150 ppm

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
TITANIUM DIOXIDE 13463-67-7	10 - 30	10 MG/m ³	Not established	Not established	Not established
1-METHOXY-2- PROPYL ACETATE 108-65-6	5 - 10	50 PPM	Not established	100 ppm	Not established
N-BUTYL ACETATE 123-86-4	3 - 7	150 ppm	200 ppm	Not established	Not established
ACETONE 67-64-1	3 - 7	500 PPM	750 PPM	Not established	Not established
BARIUM SULFATE 7727-43-7	1 - 5	10 MG/m ³	Not established	Not established	Not established
METHYL (N-AMYL) KETONE 110-43-0	1 - 5	25 ppm	Not established	Not established	Not established
PARACHLOROBEN ZOTRIFLUORIDE 98-56-6	1 - 5	Not established	Not established	25 PPM	Not established
XYLENES 1330-20-7	0.1-1.0	100 ppm	150 ppm	Not established	Not established

Key: ACGIH=American Conference of Governmental Industrial Hygienists: OSHA=Occupational Safety and Health Administration: TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit; IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Aborption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

SPECIFIC GRAVITY: PHYSICAL STATE:

1.277 Liquid

Percent Solids: Percent Volatile by Volume: 69.70 43.690

ODOR THRESHOLD:

Not available. Not available.

Vapour Pressure:

66.8 mmHa

ODOR/APPEARANCE:

Viscous liquid with an odor

characteristic of the solvents listed in

Section 2.

VAPOR DENSITY:

HEAVIER THAN AIR 251

Evaporation Rate: BOILING POINT OR RANGE:

133 - 401Degrees F

Freezing Point or Range: Melting Point or Range(°C): Not Applicable. Not Applicable.

Partition coefficient (noctanol/water):

Not Applicable.

WEIGHT PER GALLON:

10.64 (U.S.) / 12.7 (IMPERIAL)

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:

This product is normally stable and will not undergo hazardous reactions. CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon monoxide Carbon dioxide Oxides of sulfur Hydrochloric acid
- Oxides of barium Chlorinated products

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
TITANIUM DIOXIDE 13463-67-7	10 - 30	10.00 g/kg	Not Available	Not Available
1-METHOXY-2- PROPYL ACETATE 108-65-6	5 - 10	8.53 g/kg	5.00 g/kg	Not Available
N-BUTYL ACETATE 123-86-4	3 - 7	10.77 g/kg	17.60 g/kg	Not Available
ACETONE 67-64-1	3 - 7	1.80 g/kg	20.00 g/kg	76.00 g/L. 4 hr.
METHYL (N-AMYL) KETONE 110-43-0	1 - 5	1.60 g/kg	10.21 g/kg	Not Available
AROMATIC NAPHTHA 64742-95-6	1 - 5	8.40 g/kg	3.48 g/kg	5.20 g/L. 4 hr.
PARACHLOROBEN ZOTRIFLUORIDE 98-56-6	1 - 5	13.00 g/kg	2.70 g/kg	33.08 g/L. 4 hr.
XYLENES 1330-20-7	0.1-1.0	4.30 g/kg	1.70 g/kg	21.88 g/L. 4 hr.

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Carcinogen - Reproductive - Kidney - Liver - Embryotoxin - Brain -Central nervous system - Lung

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

CUDDI EMENTAL MEALTH INCODMATION

Material/ CAS Number	Percent	Ingredient Specific Animal Data:
TITANIUM DIOXIDE 13463-67-7	10 - 30	This product contains titanium dioxide. Animals inhaling massive quantities of titanium dioxide dust in a long-term study developed lung tumors. Studies with humans involved in manufacture of this pigment indicate no increased risk of cancer from exposure.
2- METHOXY- 1-PROPYL ACETATE 70657-70-4	0.1-1.0	Possible reproductive hazard. An ingredient(s) in this product has adversely affected reproductive tissues and fetal development in test animals.

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

Product ID: ESSS903653 (0808) PRODUCT NAME: FACTORY PACK WHITE

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility:

No information available.

Biodegradation: Bioaccumulation: No information available. No Information Available.

PHYSICAL/CHEMICAL

Hydrolysis: Photolysis:

No information available. No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name:

Paint

NOS Technical Name: Hazard Class:

None

None

Subsidiary Class(es): **UN Number:**

UN1263

Packing Group:

USA - RQ Hazardous Substances: None **USA-RQ Hazardous Substance**

Threshold Ship Weight:

Marine Pollutant Name:

None

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

US Regulations

Material/ CAS Number	Percent	CERCLA HS -	SARA EHS- TPQ (LBS)	SARA 313
TITANIUM DIOXIDE 13463-67-7	10 - 30	Not Listed	Not Listed	Not Listed
1-METHOXY-2- PROPYL ACETATE 108-65-6	5 - 10	Not Listed	Not Listed	Not Listed
N-BUTYL ACETATE 123-86-4	3 - 7	5000 lbs	Not Listed	Not Listed
ACETONE 67-64-1	3 - 7	5000 lbs	Not Listed	Not Listed
BARIUM SULFATE 7727-43-7	1 - 5	Not Listed	Not Listed	Not Listed
METHYL (N-AMYL) KETONE 110-43-0	1 - 5	Not Listed	Not Listed	Not Listed
AROMATIC NAPHTHA 64742-95-6	1 - 5	Not Listed	Not Listed	Not Listed
ZINC SULFIDE 1314-98-3	1 - 5	Not Listed	Not Listed	Not Listed
PARACHLOROBEN ZOTRIFLUORIDE 98-56-6	1 - 5	Not Listed	Not Listed	Not Listed
XYLENES 1330-20-7	0.1-1.0	100 lbs	Not Listed	Listed
2-METHOXY-1- PROPYL ACETATE 70657-70-4	0.1-1.0	Not Listed	Not Listed	Not Listed
(As Zinc Cmpnds) 1314-98-3	•	Not Listed	Not Listed	Listed

SARA 311/312

Health (acute): Yes Health (chronic): Yes Fire (flammable): Yes Pressure: No

Reactivity: No

WHMIS HAZARD CLASS: - Class B, Division 2 - Class D, Division 2, Subdivision A - Class D, Division 2, Subdivision B

STATE/PROVINCIAL REGULATIONS

Additional Information

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 2 30 HMIS Rating: 2*30

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department

REASON FOR REVISION: Section 2 has been updated. Changes to this section may also result in changes in sections 8, 11 and/or 15. Edition.

PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272

Product ID: ESSS903653 (0808) PRODUCT NAME: FACTORY PACK WHITE

Updated MSDS format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

ESSS903653000006 (00375260.001)(12/13/05) 051213, 000, 0808

*** END OF MSDS ***



Refinish Products 19699 Progress Drive Strongsville, OH 44149

EMERGENCY PHONE NUMBERS (412) 434-4515 (U.S.)

(24 hours/day):

(514) 645-1320 (Canada) 01-800-00-21-400 (Mexico) 0532-83889090 (China)

TECHNICAL

(440) 572-2800

INFORMATION:

PRODUCT SAFETY/MSDS INFORMATION: (412) 492-5555 7:00 a.m.

- 4:30 p.m. EST

Product ID:

ESX510 (0808)

PRODUCT NAME:

STANDARD ACTIVATOR

SYNONYMS:

None

ISSUE DATE:

04/14/2006

EDITION NO.:

CHEMICAL

ACETYLACETONE

FAMILY:

EMERGENCY OVERVIEW:

Flammable. Keep away from heat, sparks, flames, and other sources of ignition. Do not smoke. Extinguish all flames and pilot lights. Turn off stoves, heaters, electrical motors, and other sources of ignition during use and until all vapors/odors are gone. CAUSES EYE IRRITATION. MAY CAUSE SKIN BURNS. MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. VAPOR AND/OR SPRAY MIST HARMFUL IF INHALED. VAPOR IRRITATES EYES, NOSE, AND THROAT.HARMFUL IF SWALLOWED.

SECTION 2 - COMPOSITION INFORMATION

The following ingredient(s) marked with an "x" are considered hazardous under applicable U.S. OSHA and/or Canadian WHMIS regulations. If no ingredients are listed, then there are no U.S. OSHA and/or Canadian WHMIS hazardous ingredients in this product.

Material/	Percent	Hazardous
CAS Number		0.00
PARACHLOROBENZOTRIFLUO	40 - 70	X
RIDE		
98-56-6		
ACETYLACETONE	10 - 30	X
123-54-6		
ACETONE	7 - 13	X
67-64-1		

SECTION 3 - HAZARDS IDENTIFICATION

ACUTE OVEREXPOSURE EFFECTS

EYE CONTACT:

Causes eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause skin burns, Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

SKIN ABSORPTION:

May be harmful if absorbed through the skin.

INHALATION:

Vapor and/or spray mist harmful if inhaled. Vapor irritates eyes, nose, and throat.

INGESTION:

Harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Not applicable.

CHRONIC OVEREXPOSURE EFFECTS

Avoid long-term and repeated contact.

Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Prolonged exposure to an ingredient(s) in this product may cause kidney and/or liver damage.

The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

SECTION 4 - FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given if person is fully conscious. Never give anything by mouth to an unconscious or convulsing person. Do Not induce vomiting. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: 88 Degrees F (31 Degrees C)

FLASHPOINT TEST METHOD:

Pensky-Martens Closed Cup

UEL: Not Available.

LEL: 2.6

AUTOIGNITION TEMPERATURE:

Not Available.

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IC flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Product ID: ESX510 (0808) PRODUCT NAME: STANDARD ACTIVATOR

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but is not limited to, flame cutting, brazing, and welding.

SECTION 6 - ACCIDENTAL RELEASE MEASURE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbant should be placed in this container.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches. STORAGE:

Do not store above 120 degrees F.(48 degrees C.). Store large quantities in buildings designed and protected for storage of NFPA Class IC flammable liquids.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION **ENGINEERING CONTROLS:**

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT EYES:

Wear chemical-type splash goggles when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors. SKIN/GLOVES:

Wear protective clothing sufficient to cover exposed skin surfaces. For applications where skin contact is likely and impermeable clothing is necessary, select clothing constructed of: impermeable material. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes.

RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH- approved air purifying respirator with the appropriate chemical cartridges or a positivepressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting. GENERAL HYGIENE - ESTABLISHED EXPOSURE LIMITS If Threshold Limit Values (TLVs) have been established by ACGIH, OSHA, Ontario or PPG, they will be listed below. These limits are

intended for use in the practice of industrial hygiene as guidelines or recommendations in the control of potential workplace health hazards. These limits are not a relative index of toxicity and should not be used by anyone without industrial hygiene training.

Material/ CAS Number	Percent	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
ACETONE 67-64-1	7 - 13	500 ppm	750 ppm	750 ppm	1000 ppm

Material/ CAS Number	Percent	Ontario TWA	Ontario STEL	PPG IPEL	PPG STEL
PARACHLOROBEN ZOTRIFLUORIDE 98-56-6	40 - 70	Not established	Not established	25 PPM	Not established
ACETYLACETONE 123-54-6	10 - 30	Not established	Not established	20 PPM	Not established
ACETONE 67-64-1	7 - 13	500 PPM	750 PPM	Not established	Not established

Kev: ACGIH=American Conference of Governmental Industrial Hygienists; OSHA=Occupational Safety and Health Administration; TLV=Threshold Limit Value; TWA=Time Weighted Average; PEL=Permissible Exposure Limit; IPEL=Internal Permissible Exposure Limit; Ceiling=TLV or PEL Ceiling Limit; STEL=TLV or PEL Short-Term Exposure Limit; Skin= Skin Absorption Designation. [C- Ceiling Limit; S-Potential Skin Aborption; R-Respirable Dust] Additional Information Not applicable.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

(FORMULA VALUES, NOT SALES SPECIFICATIONS) 1.145

SPECIFIC GRAVITY:

Liquid

PHYSICAL STATE: Percent Solids:

.29 99.680

Percent Volatile by Volume:

Not available.

ODOR THRESHOLD:

Not available.

Vapour Pressure:

94.3 mmHg

ODOR/APPEARANCE:

Viscous liquid with an odor

characteristic of the solvents listed in

Section 2.

VAPOR DENSITY:

HEAVIER THAN AIR

Evaporation Rate:

150

BOILING POINT OR RANGE: Freezing Point or Range:

133-282Degrees F Not Applicable.

Melting Point or Range(°C): Partition coefficient (n-

Not Applicable. Not Applicable.

octanol/water):

WEIGHT PER GALLON:

9.54 (U.S.) / 11.4 (IMPERIAL)

Product ID: ESX510 (0808) PRODUCT NAME: STANDARD ACTIVATOR

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:

This product is normally stable and will not undergo hazardous reactions. CONDITIONS TO AVOID:

None Known.

INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalies, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

- Carbon dioxide - Carbon monoxide - Hydrochloric acid - Chlorinated products - Hydrogen fluoride - Fluorinated products

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Material/ CAS Number	Percent	ORAL LD50 (g/kg)	DERMAL LD50 (g/kg)	INHALATION LC50 (mg/l)
PARACHLOROBEN ZOTRIFLUORIDE 98-56-6	40 - 70	13.00 g/kg	2.70 g/kg	33.08 g/L. 4 hr.
ACETYLACETONE 123-54-6	10 - 30	.55 g/kg	.81 g/kg	Not Available
ACETONE 67-64-1	7 - 13	1.80 g/kg	20.00 g/kg	76.00 g/L. 4 hr.

CHRONIC TOXICITY

Ingredient Target Organ/Chronic Effects:

- Blood - Nasal lining - Thymus - Brain - Central nervous system - Lung -Kidney - Liver

Mutagenicity Toxicity:

This has not been tested for this product.

Reproductive Toxicity:

This has not been tested for this product.

SUPPLEMENTAL HEALTH INFORMATION:

Material/ Percent CAS Number		Ingredient Specific Animal Data:		
ACETYLAC ETONE 123-54-6	10 - 30	This product contains 2,4-pentadione. Animals repeatedly inhaling high concentrations (up to 650 ppm) had the following toxic effects: decreased body weight, nasal lining thickening, anemia, brain/thymus degeneration and death (650 ppm level only). The low odor threshold, unpleasant odor and nauseating effects at levels of a few ppm should provide adequate warning to prevent overexposure in the wokplace.		

SECTION 12 - ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS

Ecotoxicity:

No Information Available.

ENVIRONMENTAL FATE

Mobility: Biodegradation: No information available. No information available.

Bioaccumulation:

No Information Available.

PHYSICAL/CHEMICAL

Hydrolysis: Photolysis:

No information available. No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust, vermiculite, or other absorbent material and place in containers for disposal.

Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

SECTION 14 - TRANSPORTATION INFORMATION

Proper Shipping Name:

Paint

NOS Technical Name:

None

Hazard Class:

3 None

Subsidiary Class(es): **UN Number:**

UN1263

Packing Group:

Ш

USA - RQ Hazardous Substances: None **USA-RQ Hazardous Substance**

Threshold Ship Weight:

Marine Pollutant Name:

None

SECTION 15 - REGULATORY INFORMATION

INVENTORY STATUS

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

FEDERAL REGULATIONS

Material/ CAS Number	Percent	CERCLA HS - RQ (LBS)	SARA EHS- TPQ (LBS)	SARA 313
PARACHLOROBEN ZOTRIFLUORIDE 98-56-6	40 - 70	Not Listed	Not Listed	Not Listed
ACETYLACETONE 123-54-6	10 - 30	Not Listed	Not Listed	Not Listed
ACETONE 67-64-1	7 - 13	5000 lbs	Not Listed	Not Listed

SARA 311/312

Health (acute): Yes Health (chronic): Yes Fire (flammable): Yes

Pressure: Reactivity: No No

WHMIS HAZARD CLASS: - Class B, Division 2 - Class D, Division 1, Subdivision B - Class D, Division 2, Subdivision A - Class D, Division 2, Subdivision B

STATE/PROVINCIAL REGULATIONS

Additional Information

Key: IARC- International Agency on the Research of Cancer; ACGIH-American Conference of Governmental Industrial Hygienists; NTP-National Toxicology Program *Denotes chemical as NTP Known Carcinogen; + Denotes NTP Possible Carcinogen; OSHA-Occupational Safety and Health Administration.

SECTION 16 - OTHER INFORMATION

Hazard Rating Systems NFPA Rating: 3 30 HMIS Rating: 3*30

Refinish Products 19699 Progress Drive Strongsville, OH 44149

Product ID: ESX510 (0808)
PRODUCT NAME: STANDARD ACTIVATOR

Rating System: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe, *=Chronic Effects.

HMIS=Hazardous Materials Identification System; NFPA=National Fire Protection Association;

Safe handling of this product requires that all of the information on the MSDS be evaluated for specific work environments and conditions of use.

PREPARED BY: Product Safety Department REASON FOR REVISION: Section 9 has been updated. Date. Edition. Updated MSDS format.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS) and the OSHA Hazard Communication Standard (29 CFR 1910.1200), the supplier notification requirements of SARA Title III, Section 313 and other applicable right-to-know regulations.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

ESX510 000002 (00334031.001)(03/16/05) 050315, 000, 0808

*** END OF MSDS ***